

Induction Heads as a Primary Mechanism for Pattern Matching in In-context Learning

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Abstract

Large language models (LLMs) have shown a remarkable ability to learn and perform complex tasks through in-context learning (ICL). However, a comprehensive understanding of its internal mechanisms is still lacking. This paper explores the role of *induction heads* in a few-shot ICL setting. We analyse two state-of-the-art models, Llama-3-8B and InternLM2-20B on abstract pattern recognition and NLP tasks. Our results show that even a minimal ablation of induction heads leads to ICL performance decreases of up to ~32% for abstract pattern recognition tasks, bringing the performance close to random. For NLP tasks, this ablation substantially decreases the model’s ability to benefit from examples, bringing few-shot ICL performance close to that of zero-shot prompts. We further use *attention knockout* to disable specific induction patterns, and present fine-grained evidence for the role that induction mechanism plays in ICL.

1 Introduction

Large language models have shown a remarkable ability to learn and perform complex tasks through in-context learning (Brown et al., 2020; Touvron et al., 2023b). In ICL, the model receives a demonstration context and a query question as a prompt for prediction. Unlike supervised learning, ICL utilises the pretrained model’s capabilities to recognise and replicate patterns within the demonstration context, thereby enabling accurate predictions for the query without the use of gradient updates.

Given the success and wide applicability of ICL, much recent research was dedicated to better understanding its properties. Several works explored its connections to gradient descent (Akyürek et al., 2022; Von Oswald et al., 2023; Dai et al., 2022), suggesting that ICL shares fundamental similarities with it, functioning as an implicit form of fine-tuning at inference time. Other works investigated

factors influencing ICL, showing that it is driven by the distributions of the training data (Chan et al., 2022) and scales with model size, revealing new abilities at certain parameter thresholds (Brown et al., 2020; Wei et al., 2022). The properties of demonstration samples during inference also have an effect on ICL performance, with aspects such as label space, input distribution and input-label pairing playing a crucial role (Min et al., 2022; Webson and Pavlick, 2021; Wei et al., 2023b). While this work identified interesting properties of ICL and effective ICL prompting strategies, a comprehensive understanding of its operational mechanisms within the models is still lacking.

Our paper aims to fill this gap, by directly investigating the internal model computations that enable ICL. Our work is inspired by recent research in the field of mechanistic interpretability, which aims to reverse engineer the “algorithm” by which Transformer models process information (Olah et al., 2020; Geva et al., 2023; Wang et al., 2022). As a significant milestone in this area, Elhage et al. (2021) demonstrated the existence of *induction heads* in Transformer LMs. These heads scan the context for previous instances of the current token using a *prefix matching* mechanism, which identifies if and where a token has appeared before. If a matching token is found, the head employs a *copying* mechanism to increase the probability of the subsequent token, facilitating exact or approximate repetition of sequences and embodying the algorithm: $[a][b] \dots [a] \rightarrow [b]$. Building on this foundation, Olsson et al. (2022) hypothesised that induction heads are capable of abstract pattern matching and conducted a qualitative analysis of attention patterns observed in an example from an abstract classification task. They observed that these heads, when focused on the final token, tended to attend to previous instances of the correct label. However, they did not conduct any experiments to verify this. In a related study, Bansal et al. (2022) investigated

083 which heads were important for NLP tasks and
084 found some degree of overlap between these heads
085 and those that had high scores associated with in-
086 duction. However, they did not directly assess the
087 contribution of induction heads to ICL performance
088 of the models in these tasks.

089 To the best of our knowledge, our paper is the
090 first one to directly, empirically link the specific
091 computations performed by induction heads to meas-
092 urable improvements in ICL performance. We
093 investigate the role of induction heads as an under-
094 lying mechanism of few-shot ICL across a range
095 of tasks: (1) abstract pattern recognition tasks; (2)
096 popular NLP tasks. We focus on two state-of-the-
097 art models: Llama-3-8B¹ and InternLM2-20B (Cai
098 et al., 2024). We first compute prefix matching
099 and copying scores for all of their attention heads,
100 and then perform head ablation experiments by re-
101 moving 1% and 3% of the heads with the highest
102 scores. For the NLP tasks, we additionally conduct
103 experiments with semantically unrelated labels to
104 encourage the models to rely on ICL for task com-
105 pletion. To confirm our hypothesis regarding the
106 specific role of the induction mechanisms in these
107 heads, we further perform *attention knockout* exper-
108 iments, where we selectively inhibit each token’s
109 ability to attend to any tokens that directly followed
110 tokens similar to the current token. This effectively
111 simulates a loss of function in the prefix matching
112 and copying mechanisms.

113 We find that the ablation of induction heads re-
114 sults in a substantial decrease in ICL performance,
115 much more so than when an equivalent percentage
116 of random heads are ablated. Additionally, when
117 we block the induction attention pattern in these
118 heads, performance drops to levels comparable to
119 or worse than those seen with full head ablations.
120 The latter confirms not merely the importance of
121 induction heads for ICL, but also the specific role
122 of the prefix matching and copying mechanism, re-
123 tracing its application at the token level. Our work
124 is thus the first to provide comprehensive experi-
125 mental evidence, demonstrating (1) the essential
126 role of induction heads in few-shot ICL in large-
127 scale, widely-used LMs and real-world tasks and
128 (2) that induction heads utilise a "fuzzy" version
129 of the prefix matching and copying mechanisms
130 to enable pattern matching. Our code and data are
131 publicly available.²

¹<https://ai.meta.com/blog/meta-llama-3/>

²Anonymized URL

2 Related Work 132

2.1 Factors that influence ICL performance 133

Pre-training stage Chan et al. (2022) showed 134
that ICL is driven by the distributional properties 135
of the training data. They found that the ICL ability 136
emerges when the training data exhibits particular 137
distributional properties, such as items appearing 138
in clusters and having a large number of rarely oc- 139
curring classes. Brown et al. (2020) demonstrated 140
that the scalability of ICL abilities correlates di- 141
rectly with model size. This observation aligns 142
with Wei et al. (2022), who suggested that LLMs 143
might exhibit "emergent abilities" at certain scales 144
of pretraining or beyond specific parameter thresh- 145
olds. Lu et al. (2023) proposed that these so-called 146
emergent abilities are often inherent capabilities of 147
the ICL mechanism itself. 148

Inference stage At the inference stage, proper- 149
ties of demonstration samples also influence ICL 150
performance. Min et al. (2022) identified the label 151
space, input distribution, and input-label pairing 152
format as key contributors. Webson and Pavlick 153
(2021) found that models are more sensitive to la- 154
bel choice than the semantics of the instruction 155
templates. Wei et al. (2023b) later revealed that 156
sufficiently large models exhibit an emergent abil- 157
ity to learn input-label mappings, even when the 158
labels are flipped or semantically unrelated. In a 159
follow-up work, fine-tuning models on in-context 160
input-label pairs where the labels are semantically 161
unrelated to the task has been shown to boost per- 162
formance on unseen ICL tasks (Wei et al., 2023a). 163

2.2 Mechanistic Interpretability 164

Research in mechanistic interpretability seeks to 165
explain model behaviours in terms of their inter- 166
nal components (Olah et al., 2020). Elhage et al. 167
(2021) were among the first to reverse engineer the 168
computations in Transformer models. They demon- 169
strated that small, attention-only models can be de- 170
constructed into interpretable end-to-end functions, 171
which they refer to as 'circuits'. These circuits 172
represent "paths" through the model, illustrating 173
how attention mechanisms guide the information 174
flow. Through circuit analysis, Elhage et al. not 175
only demonstrated the existence of induction heads 176
but also showed that these heads can operate on 177
different distributions as long as the abstract prop- 178
erty of repeated sequences' likelihood holds true. 179
Circuit analysis has since led to the identification of 180

other behaviours within Transformer models, such as indirect object detection (Wang et al., 2022) and factual association (Meng et al., 2022).

Another recent technique—*attention knockout*—systematically disables specific attention weights to assess their impact on model outputs (Geva et al., 2023). Geva et al. (2023) explored how factual knowledge is extracted from LLMs during inference, by blocking the final position from attending to both subject and non-subject positions across specific layers. Additionally, (Wang et al., 2023) blocked label tokens from accessing prior demonstration text in shallow layers, and demonstrated that label words gather information early in forward propagation.

2.3 Induction heads & ICL

Building on Elhage et al.’s work, Olsson et al. (2022) provided initial evidence that induction heads might be an underlying mechanism of ICL, defined as the gradual reduction of loss with increasing token indices. They observed that induction heads emerge early in training, coinciding with significant improvements in the model’s ability to learn from context. They also found that modifying or removing these heads impairs ICL performance, assessed by a heuristic measure of loss reduction. In contrast, we employ a few-shot prompting ICL setting and evaluate ICL performance directly through the model’s accuracy on specific tasks.

Using head importance pruning, Bansal et al. (2022) demonstrated that up to 70% of attention heads and 20% of feed forward layers can be removed from the OPT-66B model (Zhang et al., 2022) with minimal performance decline across various downstream tasks. They uncovered a notable consistency in the relevance of certain attention heads for ICL, irrespective of the task or the number of few-shot examples. They investigated whether these crucial heads were induction heads, finding some degree of overlap with those that had high prefix matching scores. Our research extends these findings by not only identifying induction heads but also conducting ablation studies to directly evaluate their impact on ICL performance in diverse tasks.

In parallel to studies on induction heads, Wang et al. (2023) observed that during ICL, demonstration label words serve as anchors that aggregate and distribute crucial information for the final prediction. Building on this, Yu and Ananiadou

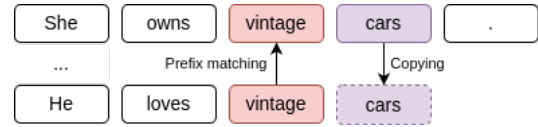


Figure 1: In the sequence "...vintage cars ... vintage," an induction head identifies the initial occurrence of "vintage," attends to the subsequent word "cars" for prefix matching, and predicts "cars" as the next word through the copying mechanism.

(2024) identified specific attention heads, termed "in-context heads", responsible for computing similarity metrics between the input text and each demonstration, subsequently selecting the corresponding labels based on these metrics.

3 Background

Elhage et al. (2021) reformulate the operations within a multi-head attention (MHA) layer, which comprises H attention heads, as follows

$$\sum_{h=1}^H \text{softmax} \left(\frac{\mathbf{x}W_q^h(\mathbf{x}W_k^h)^T}{\sqrt{d_h}} + M^h \right) \mathbf{x}W_v^hW_o^h \quad (1)$$

$$= \sum_{h=1}^H \text{softmax} \left(\frac{\mathbf{x}W_{QK}^h{}^T}{\sqrt{d_h}} + M^h \right) \mathbf{x}W_{OV}^h \quad (2)$$

where $\mathbf{x} = [\mathbf{x}_1^T, \mathbf{x}_2^T, \dots, \mathbf{x}_N^T]^T \in R^{N \times d}$ represents the sequence of embeddings, with each $\mathbf{x}_i = \mathbf{t}_i\mathbf{W}_e \in R^{1 \times d}$ denoting the embedding of the i -th input token t_i . $\mathbf{W}_e \in R^{|\mathcal{V}| \times d}$ denotes the embedding matrix over the vocabulary \mathcal{V} . $\mathbf{W}_q^h, \mathbf{W}_k^h, \mathbf{W}_v^h \in R^{d \times d_h}$ denote the query, key, and value transformations in the h -th attention head. $\mathbf{W}_o \in R^{d \times d}$ represents the output transformation of the MHA layer, and it can be decomposed as $\mathbf{W}_o = (\mathbf{W}_o^1)^T(\mathbf{W}_o^2)^T \dots (\mathbf{W}_o^H)^T$, where $\mathbf{W}_o^h \in R^{d_h \times d}$. M^h is a casual attention mask, which ensures each position can only attend to preceding positions (i.e. $M_{rc}^h = -\infty \forall c > r$ and zero otherwise).

In Equation (1), $\mathbf{W}_{QK}^h = \mathbf{W}_q^h(\mathbf{W}_k^h)^T$, termed the Query-Key (QK) circuit, calculates the attention pattern of the h -th head. The matrix $\mathbf{W}_{OV}^h = \mathbf{W}_v^h(\mathbf{W}_o^h)^T$, termed the Output-Value (OV) circuit, determines the independent output for each head for the current token. This output can be projected back to the vocabulary as $\mathbf{x}\mathbf{W}_{OV}^h\mathbf{W}_u$ by the unembedding transformation $\mathbf{W}_u \in R^{d_x \times |\mathcal{V}|}$. The projected vector represents the influence of the attention head on the output.

Leveraging this decomposition, Elhage et al. (2021) discovered a distinct behaviour in certain attention heads, which they named *induction heads*. This behaviour emerges when these heads process sequences of the form "[A] [B] ... [A] →". In these heads, the QK circuit directs attention towards [B], which appears directly after the previous occurrence of the current token [A]. This behaviour is termed "prefix matching". The OV circuit subsequently increases the output logit of the attended token [B], termed "copying". An overview of this mechanism is shown in Figure 1.

4 Methods

4.1 Models

We utilise two recently developed open-source models, namely Llama-3-8B³ and InternLM2-20B (Cai et al., 2024), both of which are based on the original Llama (Touvron et al., 2023a) architecture. These models feature grouped-query attention mechanisms (Ainslie et al., 2023) to enhance efficiency. Llama-3-8B, comprises 32 layers, each with 32 attention heads. It has shown superior performance compared to its predecessors, even the larger Llama-2 models.

InternLM2-20B, featuring 48 layers with 48 attention heads each, uses a group size of 8 attention heads. We selected InternLM2-20B for its exemplary performance on the 'Needle-in-the-Haystack' task (Cai et al., 2024), which assesses LLMs' ability to retrieve a single critical piece of information embedded within a lengthy text. This mirrors the functionality of induction heads, which scan the context for prior occurrences of a token to extract relevant subsequent information.

4.2 Identifying Induction Heads

To identify induction heads within models, we measure the ability of all attention heads to perform prefix matching on random input sequences.⁴ We follow the task-agnostic approach to computing prefix matching scores outlined by Olsson et al. (2022). We argue that focusing solely on prefix matching scores is sufficient for our analysis, as high prefix matching cores specifically indicate induction

³<https://ai.meta.com/blog/meta-llama-3/>

⁴In this work, the term "induction heads" refers to what we define as behavioural induction heads, not mechanistic ones. A true induction head must be verified mechanistically; however, our analysis employs prefix-matching scores as a proxy. We will continue to use the term "induction heads" for simplicity throughout the rest of the paper.

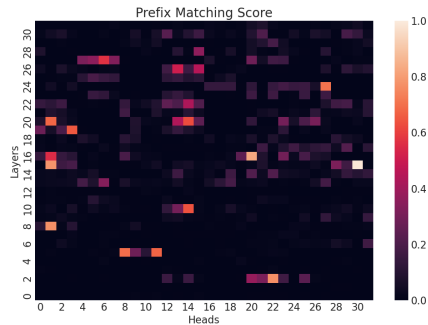


Figure 2: Prefix matching scores for Llama-3-8B.

heads, while less relevant heads tend to show high copying capabilities (Bansal et al., 2022). We generate a sequence of 50 random tokens, excluding the 4% most common and least common tokens. This sequence is repeated four times to form the input to the model. The prefix matching score is calculated by averaging the attention values from each token to the tokens that directly followed the same token in earlier repeats. The final prefix matching scores are averaged over five random sequences.

The prefix matching scores for Llama-3-8B are shown in Figure 2. For InternLM2-20B, we refer to Figure 6 in Appendix A.1. Both models exhibit heads with notably high prefix matching scores, distributed across various layers. In the Llama-3-8B model, ~3% of the heads have a prefix matching score of 0.3 or higher, indicating a degree of specialisation in prefix matching, and some heads have high scores of up to 0.98.

4.3 Head Ablations

To investigate the significance of induction heads for a specific ICL task, we conduct zero-ablations of 1% and 3% of the heads with the highest prefix matching scores. This ablation process involves masking the corresponding partition of the output matrix, denoted as \mathbf{W}_o^h in Eq. 1, by setting it to zero. This effectively renders the heads inactive. As a control condition, we also randomly ablate 1% and 3% of the model's heads, which are selected from any layer except the final layer.

4.4 Attention Knockout

To better understand the function of induction heads in few-shot ICL, we conduct *attention knockout* experiments. We hypothesise that when induction heads process a structured dataset, they generate a specific 'induction pattern' by consistently attending back to tokens that previously followed similar ones. Drawing on the methodology of Geva

et al. (2023), we empirically test whether induction heads exhibit this pattern by blocking tokens from attending to tokens that previously followed similar ones. We define two positions $r, c \in [1, N]$ where $r < c$. To inhibit attention, we prevent x_c^h from attending to x_r^h in head h by modifying the attention weights in that layer (Eq. 1) as follows: $M_{rc}^h = -\infty$. By comparing the effects of completely removing a head with merely blocking its pattern-directed attention, we can gather empirical evidence suggesting whether these heads predominantly implement this specific induction pattern.

5 Ablation Experiments: Abstract Pattern Recognition Tasks

We use a modified version of Eleuther AI’s Language Model Evaluation Harness (Gao et al., 2023) for our experiments. While the default framework randomly samples different in-context examples for each query, we adapted it to ensure a balanced sampling approach, in terms of both the number of examples and classes in the dataset. Aside from this modification, all default settings were maintained.

For predictions, we utilise the harness’s likelihood method, which identifies the target word assigned the largest log probability among all target words. We report accuracy averaged over three random seeds for example selection. For random head ablation, we report accuracy over three ablation seeds, totalling nine runs.

Datasets We first conduct ablation experiments on abstract pattern recognition tasks. In these tasks, we expect the model to rely on ICL more so than leveraging information from its training data or weights. The first set of tasks focus on recognising predefined patterns in sequences of letters. In the REPETITION task, the model must determine whether a sequence of four letters consists of repeating two tokens (e.g. A B A B). The RECURSION task involves detecting whether four-letter-sequences contain recursion (e.g. A B B B). In the CENTRE-EMBEDDING task, whether a sequence of five letters contains a centre-embedding (e.g. G L O L G). If the specific pattern is not present in any task, the sequence is a random sequence of letters.

In the second set of tasks, the model is required to label sequences of words that contain a pattern rarely seen in natural language data (i.e. not a common semantic relation). We pair specific semantic categories of words—such as <fruit, animal>, <furniture, profession> (WORDSEQ 1) and <vegetable,

Task	Pattern (Foo)	No pattern (Bar)
Repetition	X H X H	Z E W F
	Q A Q A	F I O E
Recursion	V D D D	N O W T
	F L L L	P Z X F
Centre-embedding	X B V B X	L Q I F P
	V G M G V	H M T B A
Word-sequence classification	grape shark	couch soldier
	fig panda	nightstand writer

Figure 3: Each letter-sequence dataset features examples following the respective patterns labelled ‘Foo’ and random sequences labelled ‘Bar’. For word sequence tasks, examples include pairs of semantically categorised words.

vehicle>, <body part, instrument> (WORDSEQ 2)—and conduct a binary or four-way classification of these pairs. The full datasets for these tasks are shown in Appendix A.3. Figure 3 presents examples from the letter-sequence tasks and one of the word-sequence tasks.

Experimental Setup We make use of the semantically unrelated labels "Foo" and "Bar" for all binary tasks. For the 4-way tasks, we additionally use "Mur" and "Res". For the letter-sequence datasets, we randomly generate sequences of the specified length, ensuring each dataset contains 500 examples with class balance. For the binary word-sequence datasets, we adapted the sampler to ensure it never samples examples with the same instantiation of categories as the query. For instance, "mango monkey: Foo" would not be sampled when the query is "mango shark:". This adjustment tests whether the induction heads are capable of the fuzzy pattern matching necessary for ICL, rather than just copying. Each binary word-sequence dataset contains 512 examples with class balance and each 4-way word-sequence dataset 1024. Detailed information about the prompts can be found in Appendix A.4.1. We report five- and ten-shot ICL performance for the binary classification tasks, and 20-shot performance for the four-way tasks.

Llama-3-8B results The results for Llama-3-8B are presented in Table 1. Few-shot prompting outperforms a zero-shot baseline whose performance is close to random ($\approx 50\%$) across all tasks, showing evidence of ICL. Ablating 1% of induction heads leads to a substantial decrease in performance of up to 31.8% across all tasks and settings. Increasing this to 3% causes a further decline, with the letter-sequence tasks dropping to near-random performance. A similar trend is noted

Llama-3-8B								
Task	Shot	Full model	1% ind. heads	1% ind. pattern	1% rnd. heads	3% ind. heads	3% ind. pattern	3% rnd. heads
Repetition	5	67.3	60.9 (-6.4)	62.5 (-4.8)	68.5 (+1.2)	51.3 (-16.0)	53.2 (-14.1)	68.5 (+1.2)
	10	91.3	59.5 (-31.8)	65.3 (-26.0)	90.3 (-1.0)	54.3 (-37.0)	58.7 (-32.6)	91.2 (-0.1)
Recursion	5	67.8	62.1 (-5.7)	61.5 (-6.3)	69.8 (+2.0)	54.9 (-12.9)	55.1 (-12.7)	70.9 (+3.1)
	10	91.5	66.1 (-25.4)	68.7 (-22.8)	91.5	58.1 (-33.4)	58.9 (-32.6)	92.4 (+0.9)
Centre-embedding	5	58.8	54.0 (-4.8)	55.0 (-3.8)	59.2 (+0.4)	48.3 (-10.5)	50.5 (-8.3)	59.7 (+0.9)
	10	80.4	53.1 (-27.3)	56.5 (-23.9)	81.6 (+1.2)	50.3 (-30.1)	52.3 (-28.1)	80.3 (-0.1)
WordSeq 1 (binary)	5	83.1	72.1 (-11.0)	71.8 (-11.3)	80.6 (-2.5)	54.7 (-28.4)	56.9 (-26.2)	81.0 (-3.1)
	10	99.4	96.4 (-3.0)	97.3 (-2.1)	98.4 (-1.0)	79.2 (-20.2)	82.2 (-17.2)	97.9 (-1.5)
WordSeq 2 (binary)	5	77.9	66.0 (-11.9)	65.2 (-12.7)	74.4 (-3.5)	53.5 (-24.4)	55.7 (-22.2)	75.1 (-2.8)
	10	99.4	95.3 (-4.1)	96.4 (-3.0)	97.3 (-2.1)	77.2 (-22.2)	81.1 (-18.3)	97.6 (-1.8)
WordSeq 1 (4-way)	20	78.3	59.7 (-18.6)	59.8 (-18.5)	71.9 (-6.4)	44.8 (-33.5)	45.2 (-33.1)	72.0 (-6.3)
WordSeq 2 (4-way)	20	81.3	58.6 (-22.7)	59.8 (-21.5)	71.1 (-10.2)	46.5 (-34.8)	47.5 (-33.8)	71.5 (-9.8)

InternLM2-20B								
Task	Shot	Full model	1% ind. heads	1% ind. pattern	1% rnd. heads	3% ind. heads	3% ind. pattern	3% rnd. heads
Repetition	5	68.7	63.3 (-5.4)	62.0 (-6.7)	68.2 (-0.5)	60.8 (-7.9)	58.5 (-10.2)	64.0 (-4.7)
	10	88.1	73.2 (-14.9)	72.1 (-16.0)	87.8 (-0.3)	68.7 (-19.4)	61.2 (-26.9)	84.1 (-4.0)
Recursion	5	68.1	61.4 (-6.7)	59.9 (-8.2)	68.2 (+0.1)	59.6 (-8.5)	55.3 (-12.8)	64.4 (-3.7)
	10	88.5	70.6 (-17.9)	69.9 (-18.6)	87.7 (-0.8)	66.1 (-22.4)	57.1 (-31.4)	84.4 (-4.1)
Centre-embedding	5	59.5	56.3 (-3.2)	56.1 (-3.4)	58.9 (-0.6)	55.1 (-4.4)	54.1 (-5.4)	56.3 (-3.2)
	10	75.3	60.3 (-15.0)	58.5 (-16.8)	74.9 (-0.4)	56.9 (-18.4)	54.3 (-21.0)	71.2 (-4.1)
WordSeq 1 (binary)	5	76.8	67.4 (-9.4)	64.9 (-11.9)	76.7 (-0.1)	59.9 (-16.9)	56.8 (-20.0)	76.9 (+0.1)
	10	95.6	91.7 (-3.9)	88.2 (-7.4)	94.8 (-0.8)	85.7 (-9.9)	83.3 (-12.3)	95.6
WordSeq 2 (binary)	5	83.3	74.8 (-8.5)	70.1 (-13.2)	82.5 (-0.8)	68.6 (-14.7)	64.1 (-19.2)	79.9 (-3.4)
	10	99.0	98.9 (-0.1)	96.8 (-2.2)	96.2 (-2.8)	94.1 (-4.9)	86.7 (-12.3)	98.6 (-0.4)
WordSeq 1 (4-way)	20	77.3	68.8 (-8.5)	65.4 (-11.9)	76.0 (-1.3)	37.3 (-40.0)	37.4 (-39.9)	75.5 (-1.8)
WordSeq 2 (4-way)	20	80.4	78.4 (-2.0)	75.5 (-4.9)	79.3 (-1.1)	52.9 (-27.5)	47.5 (-32.9)	77.3 (-3.1)

Table 1: Llama-3-8B (top) and InternLM2-20B (bottom) ablation experiments on the abstract pattern recognition tasks. For both models, zero-shot performance of the full model is $\approx 50\%$ in all tasks. Columns labelled '1% ind. heads' and '3% ind. heads' show results from fully ablating 1% and 3% of heads with the highest prefix scores, respectively. '1% ind. pattern' and '3% ind. pattern' columns depict outcomes from blocking induction attention patterns in 1% and 3% of these heads (Sec. 7). Columns '1% rnd. heads' and '3% rnd. heads' illustrate the effects of randomly ablating 1% and 3% of all heads in the model. Performance differences due to the ablation, compared to the full model, are indicated in parentheses.

for the binary word-sequence tasks in the five-shot setting. Though the model achieves near-perfect performance in the ten-shot binary word-sequence tasks, induction head ablations still result in performance declines of up to 22.2%. These substantial performance decreases strongly indicate that induction heads play a crucial role in few-shot ICL. In contrast, the random ablations of 1% and 3% have a much milder impact, reducing performance by no more than 10.2%. This further confirms the importance of specifically induction heads in ICL.

InternLM2-20B results The results for InternLM2-20B are presented in Table 1 (bottom). Few-shot prompting consistently outperforms

a (close to random) zero-shot baseline across all tasks, providing clear evidence of ICL. The observed patterns are consistent with those seen in Llama-3-8B: Ablating 1% of induction heads leads to a substantial decrease in performance, though these declines are not as pronounced as those seen in the Llama-3-8B model. The trend persists with the ablation of 3% of induction heads, which results in performance decreases of up to 40%. Ablating 3% of randomly selected heads only results in a performance decrease of up to 4.7%. These findings further affirm that induction heads play a crucial role in few-shot ICL, showing that these results generalise across models.

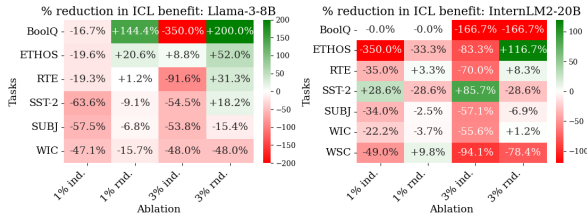


Figure 4: Reduction in ICL benefit for Llama-3-8B and InternLM2-20B, due to head ablations when compared to that of the full model. 1% ind. and 3% ind. denote ablating the top respective percentage of induction heads. 1% rnd. and 3% rnd. denote randomly ablating the respective percentage of all heads in the model.

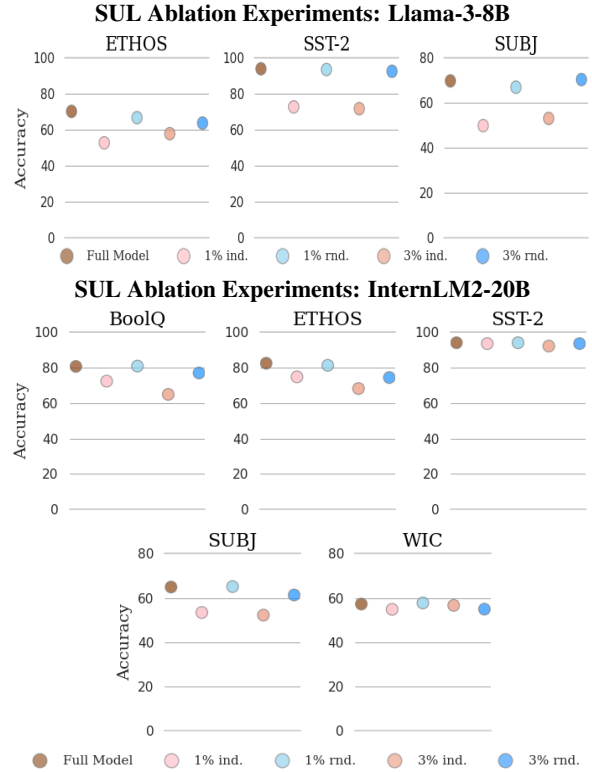


Figure 5: SUL ablation experiments on NLP tasks. 1% ind. and 3% ind. denote ablating the top respective percentage of induction heads. 1% rnd. and 3% rnd. denote randomly ablating the respective percentage of all heads in the model.

6 Ablation Experiments: NLP Tasks

Datasets and experimental setup To assess the impact of induction heads on ICL performance in real-world tasks, we conduct ablation experiments on a range of NLP classification tasks. We make use of the following datasets from the SuperGLUE benchmark (Wang et al., 2019): BoolQ (question answering), RTE (natural language inference), WIC (word-sense disambiguation) and WSC (coreference resolution). Additionally, we include ETHOS (Mollas et al., 2020)⁵ (hate speech detection), SST-2 (Socher et al., 2013) (sentiment analysis) and SUBJ (Conneau and Kiela, 2018) (subjectivity). All are binary classification tasks.

For all datasets except SST-2, we map the label space to target words "Yes"/"No", as this has been shown to improve ICL performance (Webson and Pavlick, 2021).⁶ For BoolQ, ETHOS and SUBJ, we adopt the "Input/Output" template proposed by Wei et al. (2023b). For the other datasets, we use informative prefixes for each element of the prompt (e.g. 'Premise:'). Our prompts are shown in App. A.4.2. For all tasks, demonstration examples are selected from the training set and evaluations are performed on the validation set. We report ten-shot prompting performance.

We additionally conduct experiments with semantically-unrelated labels (SUL). Specifically, we map the label space from "Yes"/"No" to "Foo"/"Bar". This removes the semantic priors typically provided by labels, forcing the model to rely solely on input-label mappings for ICL (Wei et al., 2023b). Thus, we expect the model to strongly rely on induction heads to recognise patterns.

Llama-3-8B Results We observe ICL benefit (i.e. increase over zero-shot performance) on all tasks except WSC, which we exclude from further analysis. The results for Llama-3-8B on the NLP tasks are presented in Figure 4, which shows percentage decrease in ICL benefit due to ablations. Ablating 1% of induction heads reduces the ICL benefit considerably more than a 1% random ablation across all tasks. For instance, in the SUBJ task, we observe a reduction of 57.5% and only to 6.8% in random head ablation. Increasing the induction head ablation to 3% further decreases the ICL benefit for some tasks. We further verify that for the induction head ablations, the decrease in ICL benefit is due to ten-shot performance being affected more than zero-shot performance for all tasks except ETHOS (App. A.5). Such a pattern is not present in random head ablations. This supports the importance of induction heads for ICL specifically, as opposed to the general functioning of the LLM.

In the SUL setting, the model achieves above-random performance only for the ETHOS, SST-2 and SUBJ tasks, which are presented in Figure 5. Ablating 1% of induction heads leads to substan-

⁵We employ a 80/20% training-validation split.
⁶For SST-2, we found this to actually lead to poor zero-shot performance, so we use the labels "Positive"/"Negative".

tial performance declines of roughly 20% for all tasks. For random ablations at the same level, these declines are considerably smaller. These findings suggest that the model’s capacity to reference previous examples for learning input-label mappings may be compromised. Increasing the induction head ablation to 3% did not reduce performance further, indicating that the heads responsible are amongst those with the highest prefix-scores.

InternLM2-20B results We observe positive effects of ICL on all tasks with the exceptions of BoolQ and SST-2, which we therefore exclude from further analysis. The results in the remaining tasks are shown in Figure 4. Consistent with observations from the Llama-3-8B model, we note that: (1) targeted ablations of induction heads negatively affect few-shot performance more than zero-shot performance across all tasks, whereas random ablations do not follow this pattern (App. A.5); (2) a 1% targeted ablation of induction heads diminishes the ICL benefit considerably more than a 1% random ablation. Unlike in Llama-3-8B, increasing the targeted ablation to 3% further reduces the ICL benefit in all tasks other than ETHOS.

In the SUL setting, the model achieves above-random performance in all tasks except for WSC and the results are presented in Fig. 5. A 1% ablation of induction heads results in performance reductions of up to 18% for all tasks except SST-2. In most cases, increasing the targeted ablation to 3% leads to additional declines. The random ablations consistently yield much smaller decreases in performance across all tasks. We observed similar trends for the five-shot setting, as shown in App. A.5. These consistent findings across different models and settings reaffirm our conclusions on the critical role of induction heads in ICL.

7 Attention Knockout Experiments

Experimental setup To further explore the functional significance of induction heads, we leverage the structure of the word-sequence datasets. For instance, in the binary WORDSEQ 1 task (classifying <fruit-animal> pairs vs. <furniture-profession> ones), if an induction head focuses on a *furniture* token, it should typically attend to *profession* tokens that have historically followed *furniture*. To disrupt this induction pattern, we block attention from each token to all tokens that directly follow tokens of the same category, including word categories, labels, newlines, and colons. In contrast,

the letter-sequence tasks require recognising abstract patterns rather than categorical sequences. Thus, our blocking strategy is exclusively focused on labels, newlines, and colons.

Llama-3-8B results Table 1 indicates that when blocking the induction pattern for 1% of the induction heads, performance declines are within 1.6% of those seen with full head ablations across all word-sequence task settings. For the letter-sequence tasks, this margin is slightly larger at 5.8%, which may be attributed to not blocking attention between the letter tokens themselves. Applying the knockout to 3% of the induction heads yields performance declines within 4% of full head ablations across all tasks and settings. The consistent outcomes from both full and pattern-specific ablations offer strong empirical evidence that induction heads primarily utilise this attention pattern.

InternLM2-20B results Table 1 shows that blocking the induction pattern in 1% of induction heads results in performance declines within 3.5% of full head ablations. Unlike in Llama-3-8B, this approach consistently causes greater performance decreases than full ablations. This disparity widens further when the knockout is applied to 3% of the induction heads. These observations indicate that for this model, blocking the induction pattern has a more detrimental impact on head functionality than eliminating the head entirely, suggesting that the induction heads are dependent on their specific operational patterns for performance.

8 Conclusion

In this paper, we explored the extent to which the prefix matching and copying capabilities of induction heads play a role in few-shot ICL. Our findings highlight a general trend where even a minimal ablation of just 1% of these heads results in a substantial decrease in ICL, suggesting that induction heads are crucial for the model’s few-shot learning capabilities. Additionally, when the induction pattern is blocked for a percentage of these heads, performance drops to levels comparable to full head ablations. This provides further empirical evidence that induction heads predominantly utilise this induction pattern and are dependent on it for optimal performance. Overall, our findings indicate that induction heads are a fundamental mechanism underlying ICL.

620 Limitations

621 The limitations of this study are twofold. First,
622 we lack a mechanistic basis for definitively identi-
623 fying induction heads; instead, we rely on prefix-
624 matching scores as a proxy. Consequently, it re-
625 mains unclear how the grouped-query attention
626 mechanism influences the circuits and whether in-
627 duction heads form differently as a result. Second,
628 our investigation of induction attention patterns (at-
629 tention knockout) is confined to abstract-pattern
630 recognition tasks. Further research is required to
631 verify these findings across NLP tasks.

632 Furthermore, it is worth noting that our head ab-
633 lation and attention knockout experiments demon-
634 strate that induction heads play an important role in
635 ICL. However, what we do not test for is whether
636 they are the only computational process in the
637 Transformer LM that plays such a role (this can
638 not in principle be tested by a targeted ablation or
639 blocking experiment where only a particular part of
640 the computational process is disabled). Therefore,
641 it is possible that additional mechanisms and/or cir-
642 cuits will be discovered in the future that contribute
643 to ICL, alongside induction heads.

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A Appendix

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A.1 Prefix Matching Scores InternLM-20B

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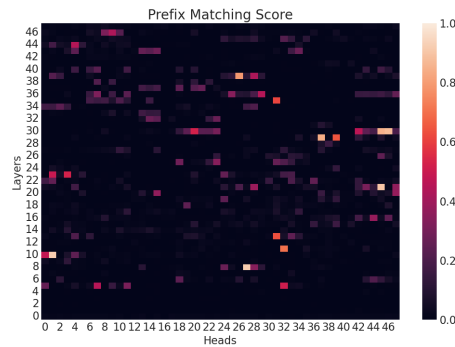


Figure 6: Prefix matching scores for InternLM2-20B

A.2 Seeds

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Task	Seeds
Prefix Matching Sequences	0, 1, 2, 3, 4
Demonstration Example Selection	42, 43, 44
Random Head Ablation	42, 43, 44

Table 2: Seed details.

A.3 Word-sequence datasets

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WordSeq 1 (Binary)

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[{"text": "cabinet scientist", "label": "Bar" }, {"text": "sofa artist", "label": "Bar" }, {"text": "stool pilot", "label": "Bar" }, {"text": "grape kangaroo", "label": "Foo" }, {"text": "plum tiger", "label": "Foo" }, {"text": "cherry whale", "label": "Foo" }, {"text": "plum giraffe", "label": "Foo" }, {"text": "pear giraffe", "label": "Foo" }, {"text": "kiwi panda", "label": "Foo" }, {"text": "cabinet actor", "label": "Bar" }, {"text": "strawberry elephant", "label": "Foo" }, {"text": "stool carpenter", "label": "Bar" }, {"text": "bed teacher", "label": "Bar" }, {"text": "cherry cat", "label": "Foo" }, {"text": "table engineer", "label": "Bar" }, {"text": "strawberry fox", "label": "Foo" }, {"text": "sofa actor", "label": "Bar" }, {"text": "mango cat", "label": "Foo" }, {"text": "nightstand nurse", "label": "Bar" }, {"text": "cabinet plumber", "label": "Bar" }, {"text": "bench teacher", "label": "Bar" }, {"text": "plum dog", "label": "Foo" }, {"text": "nectarine elephant", "label": "Foo" }, {"text": "apple elephant", "label": "Foo" }, {"text": "dresser nurse", "label": "Bar" }, {"text": "stool artist", "label": "Bar" }, {"text": "grape shark", "label": "Foo" }, {"text": "lemon shark", "label": "Foo" }, {"text": "shelf artist", "label": "Bar" }, {"text": "cabinet pilot", "label": "Bar" }, {"text": "peach monkey", "label": "Foo" }, {"text": "wardrobe engineer", "label": "Bar" }, {"text": "papaya penguin", "label": "Foo" }, {"text": "raspberry dog", "label": "Foo" }, {"text": "nectarine lion", "label": "Foo" }, {"text": "banana tiger", "label": "Foo" }, {"text": "plum cat", "label": "Foo" }, {"text": "sofa doctor", "label": "Bar" }, {"text": "banana horse", "label": "Foo" }, {"text": "shelf actor", "label": "Bar" }, {"text": "pear whale", "label": "Foo" }, {"text": "wardrobe pilot", "label": "Bar" }, {"text": "papaya lion", "label": "Foo" }, {"text": "bench actor", "label": "Bar" }, {"text": "table

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 truck", "label": "Foo" }, { "text": "garlic skateboard", "label": "Foo" }, { "text": 2360
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 train", "label": "Foo" }, { "text": "broccoli helicopter", "label": "Foo" }, { "text": 2366
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 "text": "nose piano", "label": "Bar" }, { "text": "hand saxophone", "label": "Bar" 2368
 }, { "text": "carrot plane", "label": "Foo" }, { "text": "elbow ukulele", "label": 2369
 "Bar" }, { "text": "arm clarinet", "label": "Bar" }, { "text": "celery harmonica", 2370
 "label": "Mur" }, { "text": "elbow car", "label": "Res" }, { "text": "eye harmonica", 2371
 "label": "Bar" }, { "text": "cucumber harmonica", "label": "Mur" }, { "text": "potato 2372
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 trombone", "label": "Bar" }, { "text": "radish truck", "label": "Foo" }, { "text": 2374
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 "text": "hand accordion", "label": "Bar" }, { "text": "finger banjo", "label": "Bar" 2376
 }, { "text": "eggplant boat", "label": "Foo" }, { "text": "beet motorcycle", "label": 2377
 "Foo" }, { "text": "eggplant cello", "label": "Mur" }, { "text": "potato accordion", 2378
 "label": "Mur" }, { "text": "toe bus", "label": "Res" }, { "text": "arm plane", 2379
 "label": "Res" }, { "text": "wrist trolley", "label": "Res" }, { "text": "broccoli 2380
 bicycle", "label": "Foo" }, { "text": "beet flute", "label": "Mur" }, { "text": "leg 2381
 skateboard", "label": "Res" }, { "text": "garlic violin", "label": "Mur" }, { "text": 2382
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2384 "text": "onion accordion", "label": "Mur" }, { "text": "garlic drum", "label": "Mur"
2385 }, { "text": "ankle helicopter", "label": "Res" }, { "text": "tomato boat", "label":
2386 "Foo" }, { "text": "knee accordion", "label": "Bar" }, { "text": "onion motorcycle",
2387 "label": "Foo" }, { "text": "pumpkin accordion", "label": "Mur" }, { "text": "mouth
2388 truck", "label": "Res" }, { "text": "broccoli tractor", "label": "Foo" }, { "text":
2389 "nose piano", "label": "Bar" }, { "text": "mouth train", "label": "Res" }, { "text":
2390 "eggplant flute", "label": "Mur" }, { "text": "pea scooter", "label": "Foo" }, {
2391 "text": "radish clarinet", "label": "Mur" }, { "text": "hand submarine", "label":
2392 "Res" }, { "text": "celery yacht", "label": "Foo" }, { "text": "nose helicopter",
2393 "label": "Res" }, { "text": "pepper violin", "label": "Mur" }, { "text": "onion
2394 saxophone", "label": "Mur" }, { "text": "carrot piano", "label": "Mur" }, { "text":
2395 "beet harp", "label": "Mur" }, { "text": "garlic oboe", "label": "Mur" }, { "text":
2396 "shoulder motorcycle", "label": "Res" }, { "text": "knee train", "label": "Res" },
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2398 }, { "text": "pumpkin clarinet", "label": "Mur" }, { "text": "mouth drum", "label":
2399 "Bar" }, { "text": "radish truck", "label": "Foo" }, { "text": "elbow submarine",
2400 "label": "Res" }, { "text": "eggplant drum", "label": "Mur" }, { "text": "nose
2401 minivan", "label": "Res" }, { "text": "shoulder minivan", "label": "Res" }, { "text":
2402 "broccoli saxophone", "label": "Mur" }, { "text": "potato car", "label": "Foo" }, {
2403 "text": "carrot scooter", "label": "Foo" }, { "text": "elbow truck", "label": "Res"
2404 }, { "text": "pumpkin plane", "label": "Foo" }, { "text": "toe saxophone", "label":
2405 "Bar" }, { "text": "cucumber skateboard", "label": "Foo" }, { "text": "neck bicycle",
2406 "label": "Res" }, { "text": "eye trumpet", "label": "Bar" }, { "text": "cucumber
2407 oboe", "label": "Mur" }, { "text": "spinach oboe", "label": "Mur" }, { "text":
2408 "eggplant submarine", "label": "Foo" }, { "text": "ear scooter", "label": "Res" }, {
2409 "text": "tomato flute", "label": "Mur" }, { "text": "eggplant guitar", "label": "Mur"
2410 }, { "text": "tomato saxophone", "label": "Mur" }, { "text": "eggplant oboe", "label":
2411 "Mur" }, { "text": "neck trolley", "label": "Res" }, { "text": "broccoli motorcycle",
2412 "label": "Foo" }, { "text": "finger saxophone", "label": "Bar" }, { "text": "ear
2413 minivan", "label": "Res" }, { "text": "lettuce violin", "label": "Mur" }, { "text":
2414 "knee trolley", "label": "Res" }, { "text": "eggplant yacht", "label": "Foo" }, {
2415 "text": "foot submarine", "label": "Res" }, { "text": "pepper guitar", "label": "Mur"
2416 }, { "text": "elbow oboe", "label": "Bar" }, { "text": "ankle saxophone", "label":
2417 "Bar" }, { "text": "mouth piano", "label": "Bar" }, { "text": "arm harp", "label":
2418 "Bar" }, { "text": "hand scooter", "label": "Res" }, { "text": "toe drum", "label":
2419 "Bar" }, { "text": "arm minivan", "label": "Res" }, { "text": "lettuce clarinet",
2420 "label": "Mur" }, { "text": "cucumber oboe", "label": "Mur" }, { "text": "potato
2421 motorcycle", "label": "Foo" }, { "text": "shoulder harmonica", "label": "Bar" }, {
2422 "text": "broccoli skateboard", "label": "Foo" }, { "text": "neck ukulele", "label":
2423 "Bar" }, { "text": "eye saxophone", "label": "Bar" }, { "text": "pepper trombone",
2424 "label": "Mur" }, { "text": "foot harmonica", "label": "Bar" }]

2425 A.4 Prompt Examples

2426 We provide five-shot prompting examples for all binary tasks and 20-shot prompting examples for all
2427 four-way tasks.

2428 A.4.1 Abstract Pattern Recognition Tasks

2429 Repetition:

2430 Below is a list of various sequences. Your task is to classify each sequence. Use
2431 the examples provided to understand how to classify each sequence correctly.

2432

2433 D Y P A: Bar

M B K O: Bar	2434
	2435
P L P L: Foo	2436
	2437
V S V S: Foo	2438
	2439
S I X P: Bar	2440
	2441
J E J E: Bar	2442
	2443
	2444
Recursion:	2445
Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.	2446
	2447
	2448
H U V J: Bar	2449
	2450
Q R T K: Bar	2451
	2452
X X X X: Foo	2453
	2454
U Q Q Q: Foo	2455
	2456
O R P L: Bar	2457
	2458
V H H H:	2459
	2460
Centre-embedding	2461
Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.	2462
	2463
	2464
Q T J D G: Bar	2465
	2466
R Y P O N: Bar	2467
	2468
R Y I Y R: Foo	2469
	2470
C B V B C: Foo	2471
	2472
W A Y S M: Bar	2473
	2474
N F I F N:	2475
	2476
Fruit-animal-furniture-profession: Binary Classification	2477
Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.	2478
	2479
	2480
strawberry cat: Foo	2481
	2482
cherry rabbit: Foo	2483
	2484
nightstand nurse: Bar	2485

2486
2487
2488
2489
2490
2491
2492
2493
2494
2495
2496
2497
2498
2499
2500
2501
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2534
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2537

grape rabbit: Foo

couch artist: Bar

cabinet scientist:

Fruit-animal-furniture-profession: Four-way Classification

Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.

papaya writer: Res

ottoman zebra: Mur

desk chef: Bar

mango chef: Res

shelf lion: Mur

nectarine cat: Foo

chair pilot: Bar

fig doctor: Res

bench scientist: Bar

mango horse: Foo

chair lawyer: Bar

mango lion: Foo

chair scientist: Bar

couch shark: Mur

kiwi farmer: Res

cabinet tiger: Mur

papaya actor: Res

recliner monkey: Mur

lemon elephant: Foo

desk lawyer: Bar

bookcase electrician:

Vegetable-vehicle-body_part-instrument: Binary Classification	2538
Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.	2539
potato yacht: Foo	2540
garlic minivan: Foo	2541
neck banjo: Bar	2542
spinach trolley: Foo	2543
ankle drum: Bar	2544
arm oboe:	2545
Vegetable-vehicle-body_part-instrument: Four-way Classification	2546
Below is a list of various sequences. Your task is to classify each sequence. Use the examples provided to understand how to classify each sequence correctly.	2547
celery helicopter: Foo	2548
lettuce violin: Mur	2549
mouth train: Res	2550
broccoli bus: Foo	2551
pumpkin accordion: Mur	2552
arm accordion: Bar	2553
foot helicopter: Res	2554
lettuce trolley: Foo	2555
eye boat: Res	2556
mouth piano: Bar	2557
arm plane: Res	2558
knee guitar: Bar	2559
arm plane: Res	2560
carrot saxophone: Mur	2561
cucumber scooter: Foo	2562
eggplant harmonica: Mur	2563

2590
2591
2592
2593
2594
2595
2596
2597
2598
2599
2600

garlic scooter: Foo

onion trombone: Mur

toe cello: Bar

arm bicycle: Res

finger submarine:

2601

A.4.2 NLP Tasks

2602

BoolQ

2603

Read the passage and answer the question.

2604

2605

Input: Natural-born-citizen clause - Status as a natural-born citizen of the United States is one of the eligibility requirements established in the United States Constitution for holding the office of President or Vice President. This requirement was intended to protect the nation from foreign influence.

2606

2607

2608

2609

2610

Can a canadian be president of the united states?

2611

2612

Output: No

2613

2614

Input: Pepsi Zero Sugar - Pepsi Zero Sugar (sold under the names Diet Pepsi Max until early 2009 and then Pepsi Max until August 2016), is a zero-calorie, sugar-free, carbohydrate-free, ginseng-infused cola sweetened with aspartame, marketed by PepsiCo. In Fall 2016, PepsiCo renamed the drink Pepsi Zero Sugar from Pepsi Max. It has nearly twice the caffeine of Pepsi's other cola beverages. Pepsi Zero Sugar contains 69 milligrams of caffeine per 355ml (12 fl oz), versus 36 milligrams in Diet Pepsi.

2615

2616

2617

2618

2619

2620

2621

2622

Is pepsi zero sugar the same as diet pepsi?

2623

2624

Output: No

2625

2626

Input: Phone hacking - Phone hacking, being a form of surveillance, is illegal in many countries unless it is carried out as lawful interception by a government agency. In the News International phone hacking scandal, private investigator Glenn Mulcaire was found to have violated the Regulation of Investigatory Powers Act 2000. He was sentenced to six months in prison in January 2007. Renewed controversy over the phone hacking claims led to the closure of the News of the World in July 2011.

2627

2628

2629

2630

2631

2632

2633

Is it illegal to hack into someones phone?

2634

2635

Output: Yes

2636

2637

Input: Legal threat - A legal threat is a statement by a party that it intends to take legal action on another party, generally accompanied by a demand that the other party take an action demanded by the first party or refrain from taking or continuing actions objected to by the demanding party.

2638

2639

2640

Can you threaten to take someone to court? 2641

Output: Yes 2642

Input: Devil's food cake - Devil's food cake is a moist, airy, rich chocolate layer cake. It is considered a counterpart to the white or yellow angel food cake. Because of differing recipes and changing ingredient availability over the course of the 20th century, it is difficult to precisely qualify what distinguishes devil's food from the more standard chocolate cake, though it traditionally has more chocolate than a regular chocolate cake, making it darker. The cake is usually paired with a rich chocolate frosting. 2643

Is devil's food cake the same as chocolate? 2644

Output: No 2645

Input: Ethanol fuel - All biomass goes through at least some of these steps: it needs to be grown, collected, dried, fermented, distilled, and burned. All of these steps require resources and an infrastructure. The total amount of energy input into the process compared to the energy released by burning the resulting ethanol fuel is known as the energy balance (or "energy returned on energy invested"). Figures compiled in a 2007 report by National Geographic Magazine point to modest results for corn ethanol produced in the US: one unit of fossil-fuel energy is required to create 1.3 energy units from the resulting ethanol. The energy balance for sugarcane ethanol produced in Brazil is more favorable, with one unit of fossil-fuel energy required to create 8 from the ethanol. Energy balance estimates are not easily produced, thus numerous such reports have been generated that are contradictory. For instance, a separate survey reports that production of ethanol from sugarcane, which requires a tropical climate to grow productively, returns from 8 to 9 units of energy for each unit expended, as compared to corn, which only returns about 1.34 units of fuel energy for each unit of energy expended. A 2006 University of California Berkeley study, after analyzing six separate studies, concluded that producing ethanol from corn uses much less petroleum than producing gasoline. 2646

Does ethanol take more energy make that produces? 2647

Output: 2648

ETHOS 2649

Does the input contain hate speech? 2650

Input: I see the depression caused her to gain more weight. 2651

Output: No 2652

Input: all mental illnesses are awful and must be treated 2653

Output: Yes 2654

Input: These people are fucking animals they will never change. Our cultures 2655

2693 are simply not compatible. There is definitely a rape culture and it's right
2694 here with Islam.

2695
2696 Output: Yes

2697
2698 Input: Even when at the income advantage, niggers still get btfo because
2699 your race are monkeys trying to do human things. They should be extinguished
2700

2701 Output: Yes

2702
2703 Input: I don't see why we don't just create a transgender category. Seems
2704 the most obvious and fair solution. Great athletes will still compete. And the
2705 playing field will be as level as can be. I mean we create weight categories
2706 to maximise the fairness of boxing/mma fights. We recognise that just because two
2707 people are both male they compete at different levels. We can do the same for
2708 transgender athletes, surely?
2709

2710 Output: No

2711
2712 Input: feminism and Islam are of the same spirit

2713
2714 Output:

2715
2716 **RTE**

2717 You are given a premise and a hypothesis. Given the premise, tell me if the
2718 hypothesis is correct.
2719

2720 Premise: Les Paul, who continues to perform weekly at New York Iridium Jazz
2721 Club, has finished recording "Les Paul Friends."

2722 Hypothesis: Iridium Jazz Club is located in New York.
2723

2724 Answer: Yes

2725
2726 Premise: The discovery of the body of a warrior - thought to have died in
2727 battle more than 2,000 years ago - could help archaeologists to pinpoint the site
2728 of an ancient holy site. The young warrior, aged about 30, with his spear, a sword,
2729 his belt and scabbard, stunned archaeologists who found his stone coffin.

2730 Hypothesis: Altai ice maiden triggers major dispute.
2731

2732 Answer: No

2733
2734 Premise: Switzerland has ratified bilateral agreements with the members of
2735 the European Union in March 2004, but the new members (Cyprus, Czech Republic,
2736 Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia and Slovenia) were not
2737 included in the deal.

2738 Hypothesis: Lithuania intends to introduce the use of the Euro as an official
2739 currency on January 1, 2007.
2740

2741 Answer: No

2742
2743 Premise: Jill Pilgrim, general counsel of USA Track and Field, brought up
2744 the issue during a panel on women's sports at the sports lawyers conference. Pilgrim

said the law regarding who is legally considered a woman is changing as sex-change operations become more common. 2745
 Hypothesis: Sex-change operations become more common. 2746
 Answer: Yes 2747
 2748
 Premise: Lastly, the author uses the precedent of marijuana legalization in other countries as evidence that legalization does not solve any social problems, but instead creates them. 2749
 Hypothesis: Drug legalization has benefits. 2750
 Answer: No 2751
 2752
 Premise: Dana Reeve, the widow of the actor Christopher Reeve, has died of lung cancer at age 44, according to the Christopher Reeve Foundation. 2753
 Hypothesis: Christopher Reeve had an accident. 2754
 Answer: 2755
 2756
 Premise: Dana Reeve, the widow of the actor Christopher Reeve, has died of lung cancer at age 44, according to the Christopher Reeve Foundation. 2757
 Hypothesis: Christopher Reeve had an accident. 2758
 Answer: 2759
 2760
SST-2 2761
 Classify the review according to its sentiment. 2762
 2763
 Review: - and especially williams , an american actress who becomes fully english 2764
 Sentiment: Positive 2765
 2766
 Review: each other so intensely , but with restraint 2767
 Sentiment: Positive 2768
 2769
 Review: tear your eyes away 2770
 Sentiment: Negative 2771
 2772
 Review: fascinating and playful 2773
 Sentiment: Positive 2774
 2775
 Review: been discovered , indulged in and rejected as boring before i see this piece of crap again 2776
 Sentiment: Negative 2777
 2778
 Review: it 's a charming and often affecting journey . 2779
 Sentiment: 2780
 2781
SUBJ 2782
 Does the input contain personal opinions, feelings, or beliefs? 2783
 Input: by taking entertainment tonight subject matter and giving it humor and 2784
 2785
 2786
 2787
 2788
 2789
 2790
 2791
 2792
 2793
 2794
 2795
 2796

2797 poignancy , auto focus becomes both gut-bustingly funny and crushingly depressing .

2798

2799 Output: Yes

2800

2801 Input: if you open yourself up to mr . reggio 's theory of this imagery as
2802 the movie 's set . . . it can impart an almost visceral sense of dislocation and
2803 change .

2804

2805 Output: Yes

2806

2807 Input: but for one celebrant this holy week is different .

2808

2809 Output: No

2810

2811 Input: with grit and determination molly guides the girls on an epic journey
2812 , one step ahead of the authorities , over 1 , 500 miles of australia 's outback
2813 in search of the rabbit-proof fence that bisects the continent and will lead them home .

2814

2815 Output: No

2816

2817 Input: just about all of the film is confusing on one level or another ,
2818 making ararat far more demanding than it needs to be .

2819

2820 Output: Yes

2821

2822 Input: pirates of the caribbean is a sweeping action-adventure story set in
2823 an era when villainous pirates scavenged the caribbean seas .

2824

2825 Output:

2826

2827 WIC

2828 You are given two sentences and a word. Tell me whether the word has the same meaning
2829 in both sentences.

2830

2831 Word: right

2832 Sentence 1: He stood on the right.

2833 Sentence 2: The pharmacy is just on the right past the bookshop.

2834

2835 Answer: Yes

2836

2837 Word: act

2838 Sentence 1: She wants to act Lady Macbeth, but she is too young for the role.

2839 Sentence 2: The dog acts ferocious, but he is really afraid of people.

2840

2841 Answer: No

2842

2843 Word: fall

2844 Sentence 1: The hills around here fall towards the ocean.

2845 Sentence 2: Her weight fell to under a hundred pounds.

2846

2847 Answer: No

2848

Word: Round	2849
Sentence 1: Round off the amount.	2850
Sentence 2: The total is \$25,715 but to keep the figures simple, I'll round it down to \$25,000.	2851
	2852
	2853
Answer: Yes	2854
	2855
Word: have	2856
Sentence 1: What do we have here?	2857
Sentence 2: I have two years left.	2858
	2859
Answer: No	2860
	2861
Word: class	2862
Sentence 1: An emerging professional class.	2863
Sentence 2: Apologizing for losing your temper, even though you were badly provoked, showed real class.	2864
	2865
	2866
Answer:	2867
	2868
WSC	2869
You are given a sentence, a pronoun and a noun. Tell me whether the specified pronoun and the noun phrase refer to the same entity in the sentence.	2870
	2871
	2872
Sentence: Jane knocked on Susan 's door but she did not answer.	2873
Pronoun: she	2874
Noun: Susan	2875
	2876
Answer: Yes	2877
	2878
Sentence: The mothers of Arthur and Celeste have come to the town to fetch them. They are very happy to have them back, but they scold them just the same because they ran away.	2879
	2880
	2881
Pronoun: they	2882
Noun: Arthur and Celeste	2883
	2884
Answer: No	2885
	2886
Sentence: The scientists are studying three species of fish that have recently been found living in the Indian Ocean. They appeared two years ago.	2887
	2888
Pronoun: They	2889
Noun: The scientists	2890
	2891
Answer: No	2892
	2893
Sentence: Sergeant Holmes asked the girls to describe the intruder . Nancy not only provided the policeman with an excellent description of the heavyset thirty-year-old prowler, but drew a rough sketch of his face.	2894
	2895
	2896
Pronoun: his	2897
Noun: the intruder	2898
	2899
Answer: Yes	2900

2901
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2912
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2914
2915
2916

Sentence: The boy continued to whip the pony , and eventually the pony threw him over. John laughed out quite loud. "Served him right," he said.

Pronoun: him

Noun: pony

Answer: No

Sentence: Bernard , who had not told the government official that he was less than 21 when he filed for a homestead claim, did not consider that he had done anything dishonest. Still, anyone who knew that he was 19 years old could take his claim away from him .

Pronoun: him

Noun: anyone

Answer:

A.5 Full NLP ablation experiments

2917

LLama-3-8B							
Task	Shot	Acc	1%	1% rnd.	3%	3% rnd.	
BoolQ	0	77.8	76.2 (-1.6)	72.7 (-5.1)	75.2 (-2.6)	71.9 (-5.9)	
	5	79.8	77.1 (-2.7)	76.4 (-3.4)	73.0 (-6.8)	77.2 (-2.6)	
	10	79.6	77.7 (-1.9)	77.1 (-2.5)	70.7 (-8.9)	77.3 (-2.3)	
	SUL	10	46.3	-	-	-	-
ETHOS	0	70.0	72.0 (+2.0)	68.6 (-1.4)	70.0	62.0 (-8.0)	
	5	82.5	82.5	79.5 (-3.0)	81.2 (-1.3)	75.3 (-7.2)	
	10	80.2	80.2	80.9 (+0.7)	81.1 (-1.1)	77.5 (-2.7)	
	SUL	10	70.3	52.8 (-17.5)	66.8 (-3.5)	57.9 (-12.4)	63.8 (-6.5)
RTE	0	71.1	67.5 (-3.6)	70.3 (-0.8)	67.9 (-3.2)	67.5 (-3.6)	
	5	79.5	75.2 (-4.3)	79.0 (-0.5)	71.6 (-7.9)	78.1 (-1.4)	
	10	79.4	74.2 (-5.2)	78.7 (-0.7)	68.6 (-10.8)	78.4 (-1.0)	
	SUL	10	52.4	-	-	-	-
SST-2	0	92.4	92.1 (-0.3)	92.7 (+0.3)	92.2 (-0.2)	91.9 (-0.5)	
	5	93.9	92.4 (-1.5)	94.3 (+0.4)	93.0 (-0.9)	93.9	
	10	94.6	92.9 (-1.7)	94.7 (+0.1)	93.2 (-1.4)	94.5 (-0.1)	
	SUL	10	94.0	72.8 (-21.2)	93.6 (-0.4)	71.8 (-22.2)	92.6 (-1.4)
SUBJ	0	52.6	53.0 (+0.4)	54.0 (+1.4)	52.4 (-0.2)	53.2 (+0.6)	
	5	58.1	53.5 (-4.6)	58.8 (+0.7)	56.3 (-1.8)	56.5 (-1.6)	
	10	74.7	62.4 (-12.3)	74.6 (-0.1)	62.6 (-12.1)	71.9 (-2.8)	
	SUL	10	69.8	49.9 (-19.9)	67.0 (-2.8)	53.1 (-16.7)	70.4 (+0.6)
WIC	0	51.4	51.4	51.0 (-0.4)	50.9 (-0.5)	51.7 (+0.3)	
	5	59.6	58.2 (-1.4)	59.0 (-0.6)	56.3 (-3.3)	56.8 (-2.8)	
	10	61.6	56.8 (-4.8)	59.6 (-2.0)	56.2 (-5.4)	57.0 (-4.6)	
	SUL	10	52.6	-	-	-	-
InternLM2-20B							
Task	Shot	Acc	1%	1% rnd.	3%	3% rnd.	
BoolQ	0	88.6	88.6	88.5 (-0.1)	87.7 (-0.9)	86.9 (-1.7)	
	5	88.5	88.5	88.6 (+0.1)	88.2 (-0.3)	87.5 (-1.0)	
	10	88.3	88.3	88.2 (-0.1)	87.9 (-0.4)	87.1 (-1.3)	
	SUL	10	80.7	72.4 (-8.3)	80.9 (+0.2)	64.9 (-15.8)	77.0 (-3.7)
ETHOS	0	82.0	82.5 (+0.5)	82.5 (+0.5)	82.0	81.5 (-0.5)	
	5	84.7	81.3 (-3.4)	84.2 (-0.5)	81.8 (-2.9)	82.6 (-2.1)	
	10	82.6	81.0 (-1.6)	82.9 (+0.3)	82.1 (-0.5)	82.8 (+0.2)	
	SUL	10	82.5	74.8 (-7.7)	81.3 (-1.2)	68.2 (-14.3)	74.4 (-8.1)
RTE	0	81.2	80.1 (-1.1)	80.6 (-0.6)	80.5 (-0.7)	79.9 (-1.3)	
	5	84.7	82.3 (-2.4)	84.4 (-0.3)	81.4 (-3.3)	84.4 (-0.3)	
	10	87.2	84.0 (-3.2)	86.8 (-0.4)	82.3 (-4.9)	86.4 (-0.8)	
	SUL	10	80.1	62.9 (-17.2)	81.4 (+1.3)	56.4 (-23.7)	76.9 (-3.2)
SST-2	0	96.0	96.0	95.7 (-0.3)	95.6 (-0.4)	95.7 (-0.3)	
	5	95.1	95.1	95.0 (-0.1)	94.2 (-0.9)	94.9 (-0.2)	
	10	95.3	95.1 (-0.2)	95.2 (-0.1)	94.3 (-1.0)	95.2 (-0.1)	
	SUL	10	94.1	93.6 (-0.5)	94.1	92.2 (-1.9)	93.6 (-0.5)
SUBJ	0	61.1	61.7 (+0.6)	61.6 (+0.5)	62.6 (+1.5)	59.9 (-1.2)	
	5	75.4	69.6 (-5.8)	75.0 (-0.4)	70.0 (-5.4)	73.4 (-2.0)	
	10	81.4	75.1 (-6.3)	81.4	71.3 (-10.1)	78.8 (-2.6)	
	SUL	10	64.9	53.4 (-11.5)	65.1 (+0.2)	52.2 (-12.7)	61.3 (-3.6)
WIC	0	60.8	60.7 (-0.2)	60.8	59.9 (-0.9)	60.1 (-0.7)	
	5	68.6	67.2 (-1.4)	68.7 (+0.1)	61.9 (-6.7)	68.9 (+0.3)	
	10	68.9	67.0 (-1.9)	68.6 (-0.3)	63.5 (-5.4)	68.3 (-0.6)	
	SUL	10	57.2	54.8 (-2.4)	57.7 (+0.5)	56.6 (-0.6)	54.9 (-2.3)
WSC	0	70.2	67.3 (-2.9)	69.6 (-0.6)	68.3 (-1.9)	70.8 (+0.6)	
	5	73.1	68.0 (-5.1)	73.0 (-0.1)	69.6 (-3.5)	73.1	
	10	75.3	69.9 (-5.4)	75.2 (-0.1)	68.6 (-1.3)	71.9 (-3.4)	
	SUL	10	43.3	-	-	-	-

Table 3: LLama-3-8B and InternLM2-20B ablation experiments on the NLP tasks. Columns labelled '1% ind. heads' and '3% ind. heads' show the results from fully ablating 1% and 3% of heads with the highest prefix scores, respectively. Columns '1% rnd. heads' and '3% rnd. heads' illustrate the effects of randomly ablating 1% and 3% of all heads in the model. The row 'SUL' denotes settings using semantically unrelated labels. Performance differences due to the ablation, compared to the full model, are indicated in parentheses.

2918 **A.6 Attention Patterns**

2919 **Attention pattern analysis** We conduct a qualitative analysis of the attention patterns exhibited by the
2920 top five induction heads with the highest prefix matching scores on the 4-way word sequence classification
2921 dataset. Figure 7 illustrates the attention pattern of the highest scoring induction head for the final token
2922 of a sample from the dataset. This token predominantly attends to label tokens, particularly focusing on
2923 "Res," the target label in this instance. Such patterns, while not universally consistent, are particularly
2924 evident in induction heads located in later layers, suggesting that induction mechanisms may facilitate the
2925 model's ability to selectively focus on relevant labels in certain contexts.

2926 Furthermore, Figure 8 displays the attention pattern for the 'fig' token. We observe that the head attends
2927 to tokens that previously followed fruit tokens. This behaviour was consistent across all token categories
2928 and observed in various heads and samples, suggesting that induction heads not only learn input-label
2929 mappings, but also grasp the underlying pattern itself. See other attention patterns analysed in this study
2930 below.

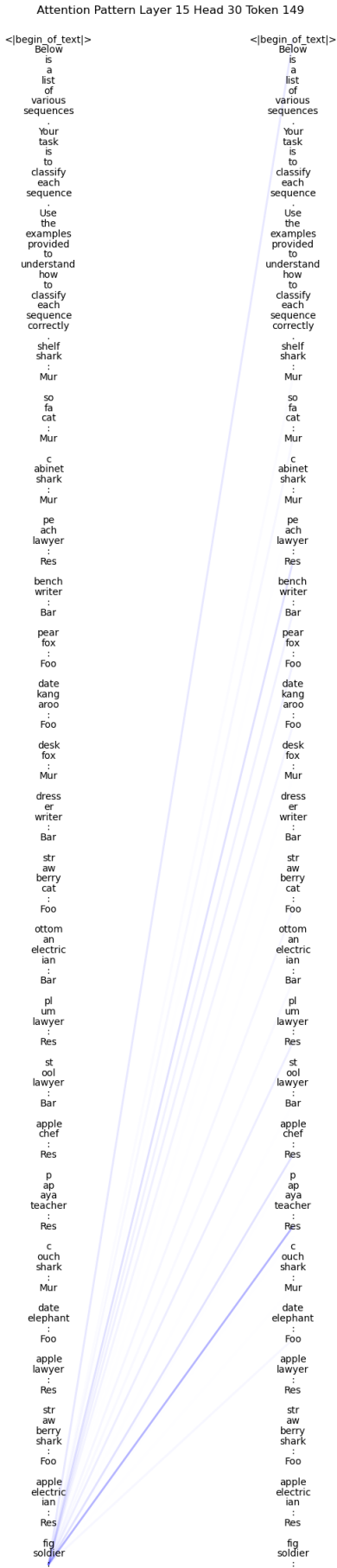


Figure 7: Attention pattern of the final token in head 30 of layer 15 in the Llama-3-8B model.

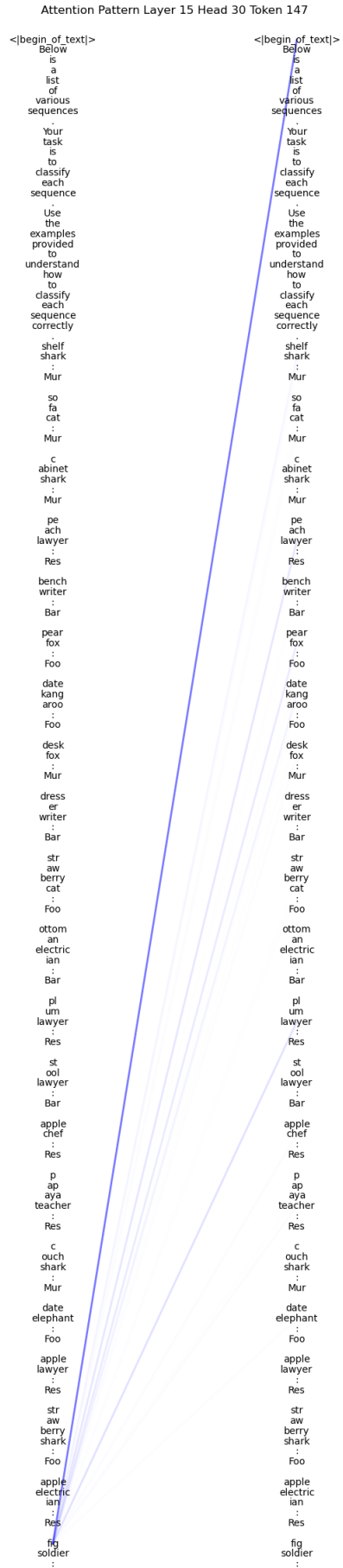


Figure 8: Attention pattern of the 'fig' token in head 30 of layer 15 in the Llama-3-8B model.

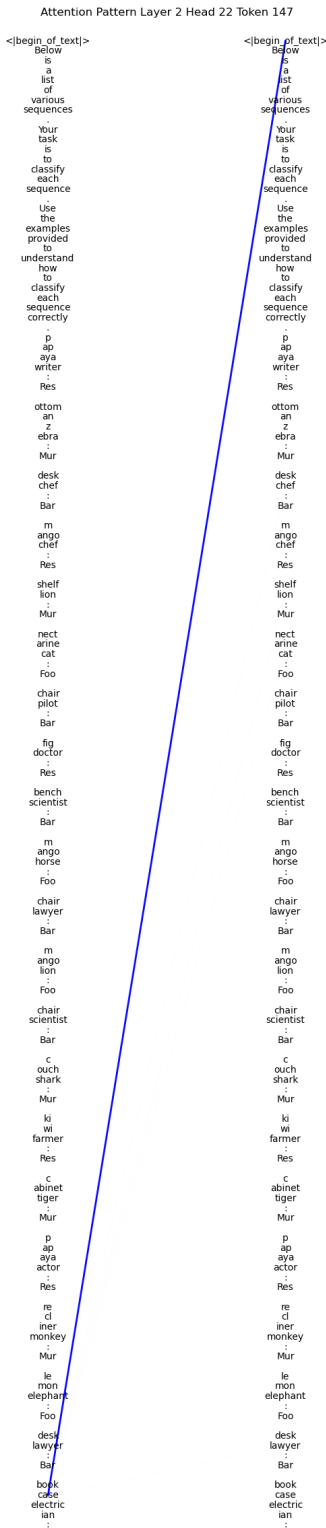


Figure 9: Attention pattern of token 147 in head 22 of layer 2 in Llama-3-8B. Example 1/5.

Figure 10: Attention pattern of token 150 in head 22 of layer 2 in Llama-3-8B. Plot 1/5.



Figure 11: Attention pattern of token 147 in head 1 of layer 8 in Llama-3-8B. Example 1/5.

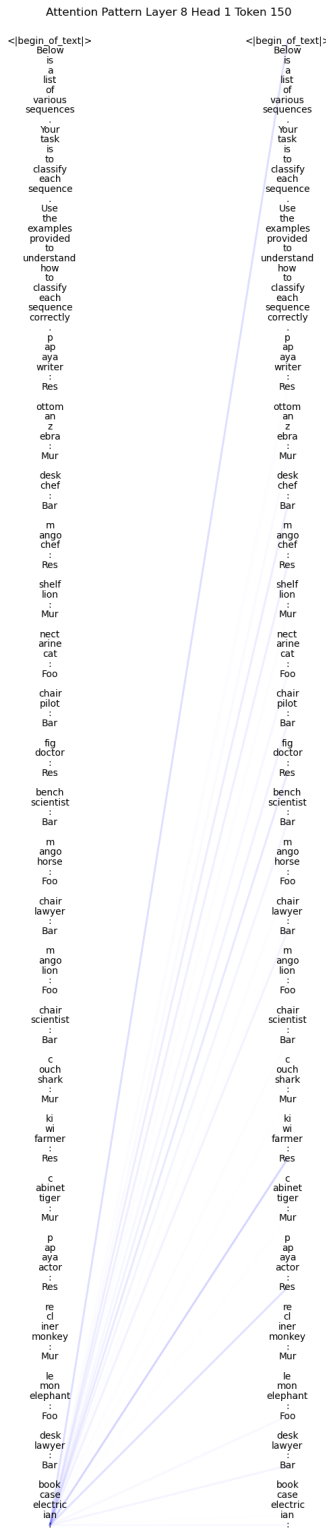


Figure 12: Attention pattern of token 150 in head 1 of layer 8 in Llama-3-8B. Plot 1/5.

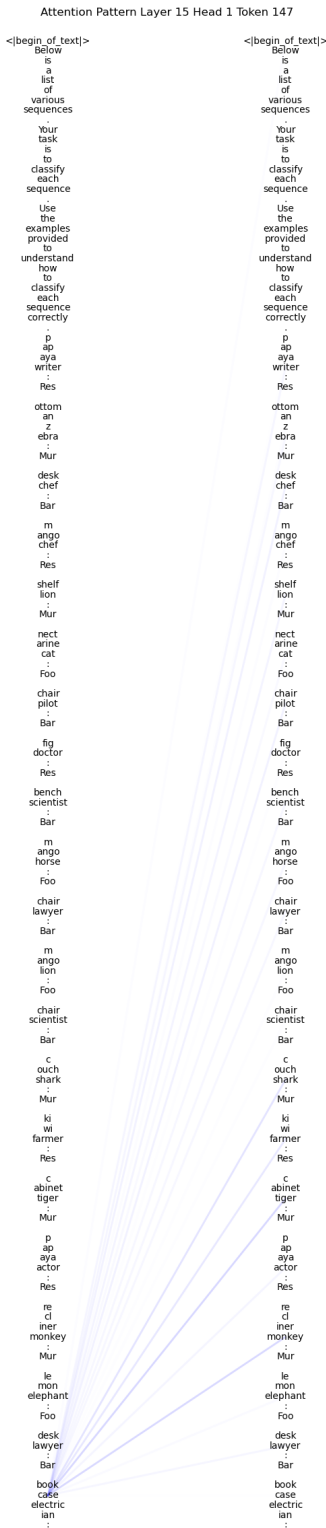


Figure 13: Attention pattern of token 147 in head 1 of layer 15 in Llama-3-8B. Example 1/5.

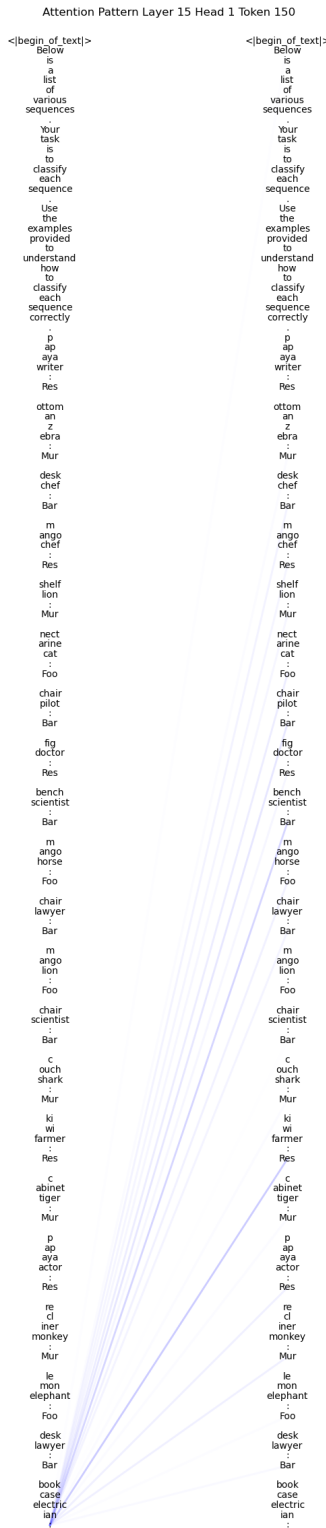


Figure 14: Attention pattern of token 150 in head 1 of layer 15 in Llama-3-8B. Plot 1/5.

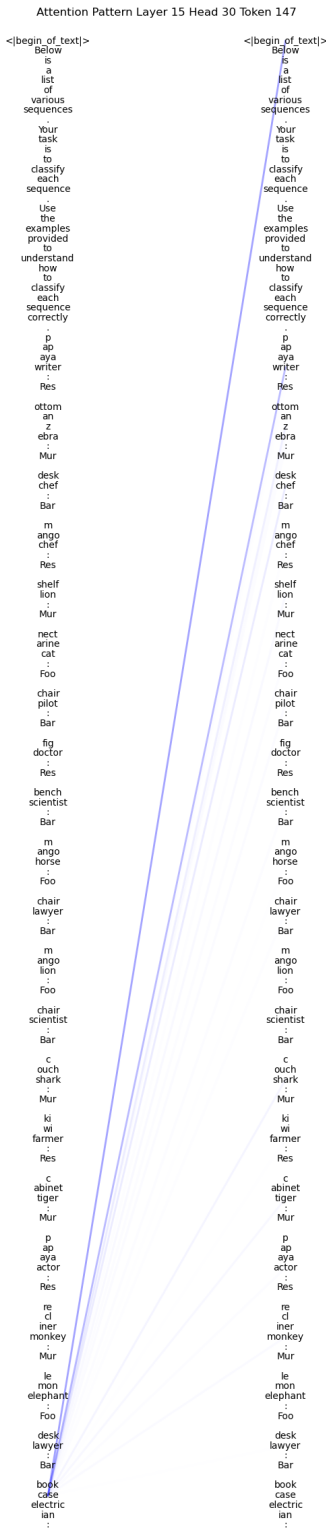


Figure 15: Attention pattern of token 147 in head 30 of layer 15 in Llama-3-8B. Example 1/5.

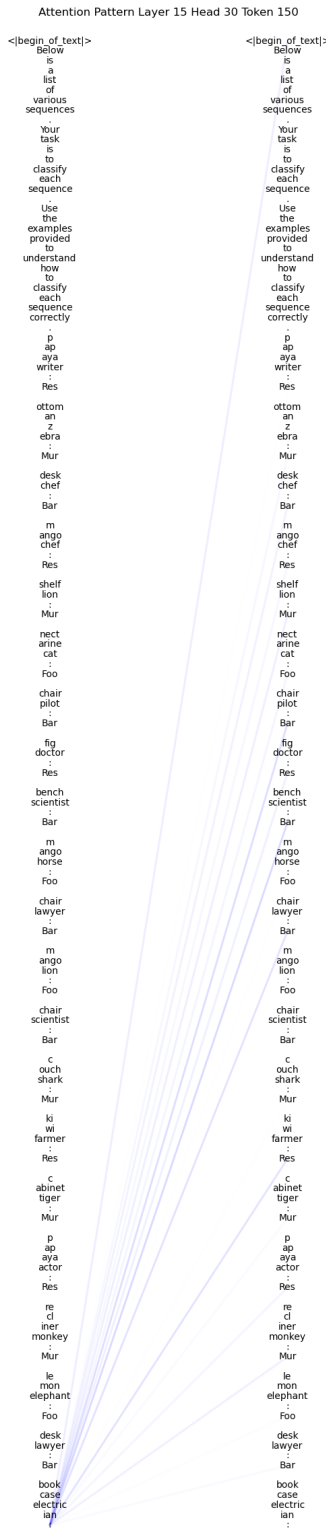


Figure 16: Attention pattern of token 150 in head 30 of layer 15 in Llama-3-8B. Plot 1/5.

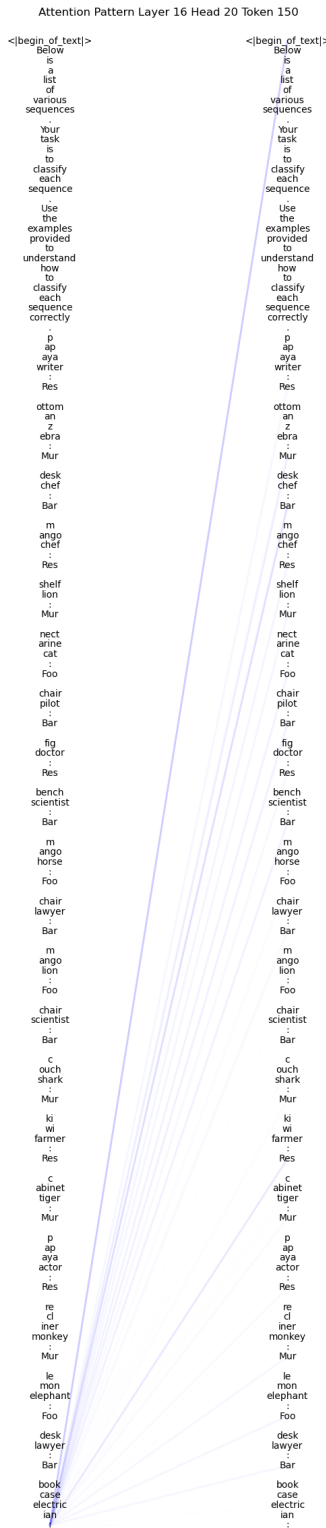


Figure 17: Attention pattern of token 147 in head 20 of layer 16 in Llama-3-8B. Example 1/5.

Figure 18: Attention pattern of token 150 in head 20 of layer 16 in Llama-3-8B. Plot 1/5.

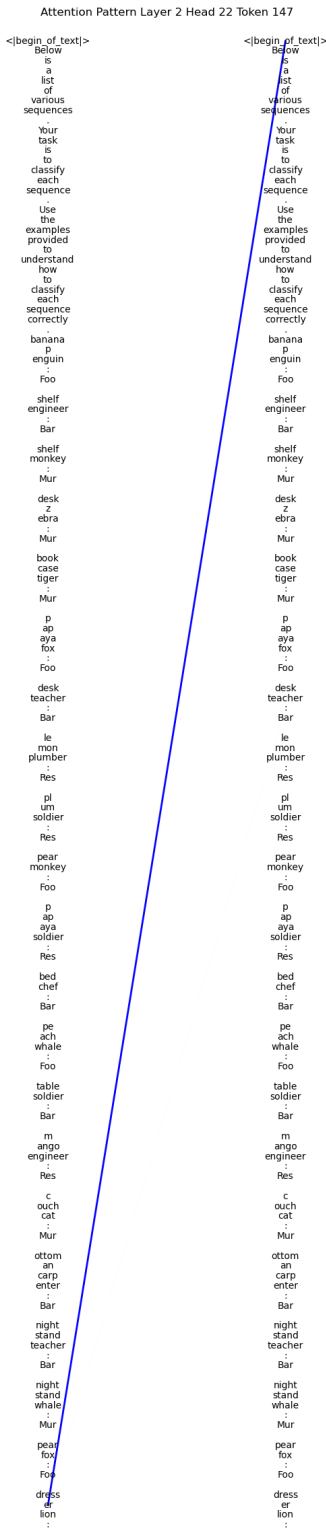


Figure 19: Attention pattern of token 147 in head 22 of layer 2 in Llama-3-8B. Example 2/5.

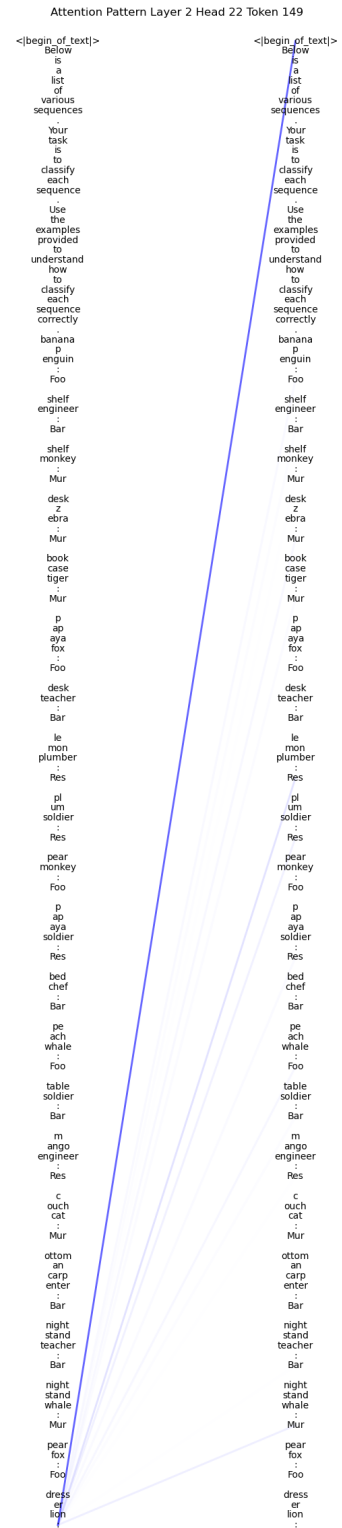


Figure 20: Attention pattern of token 149 in head 22 of layer 2 in Llama-3-8B. Plot 2/5.

Attention Pattern Layer 8 Head 1 Token 147

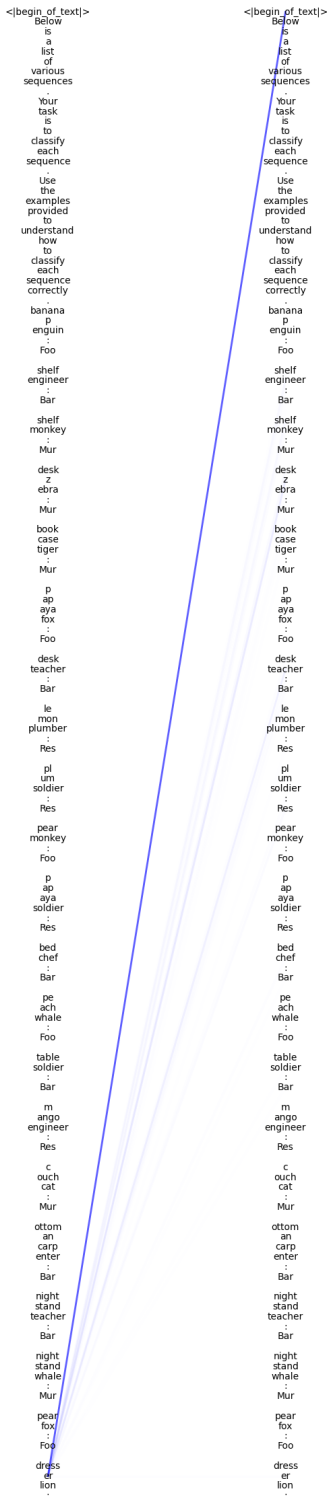


Figure 21: Attention pattern of token 147 in head 1 of layer 8 in Llama-3-8B. Example 2/5.

Attention Pattern Layer 8 Head 1 Token 149

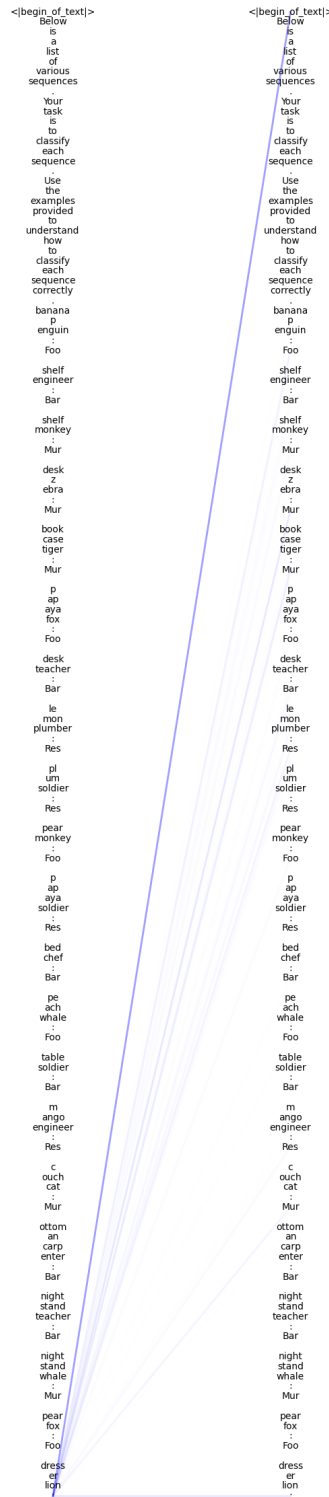


Figure 22: Attention pattern of token 149 in head 1 of layer 8 in Llama-3-8B. Plot 2/5.

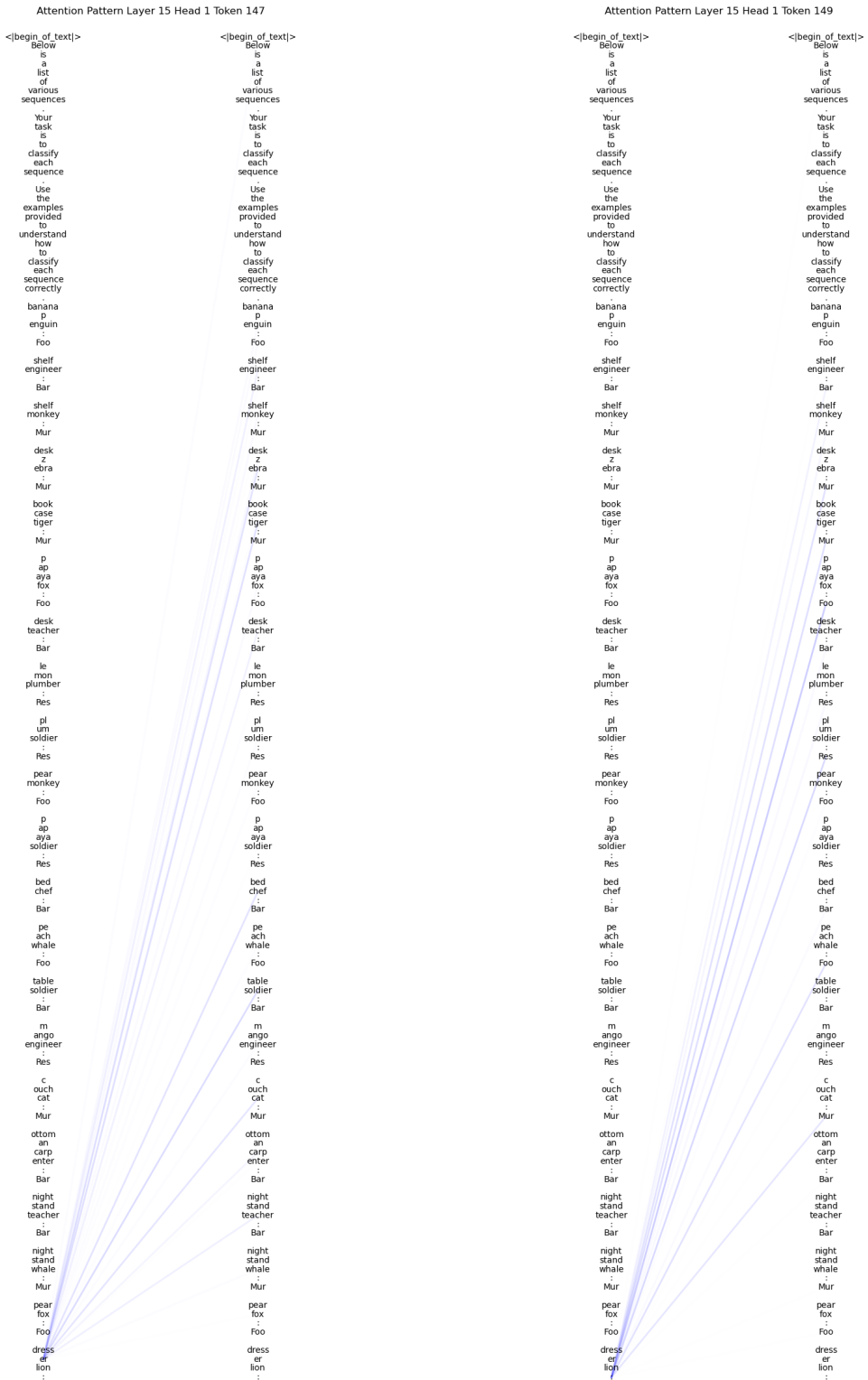


Figure 23: Attention pattern of token 147 in head 1 of layer 15 in Llama-3-8B. Example 2/5.

Figure 24: Attention pattern of token 149 in head 1 of layer 15 in Llama-3-8B. Plot 2/5.

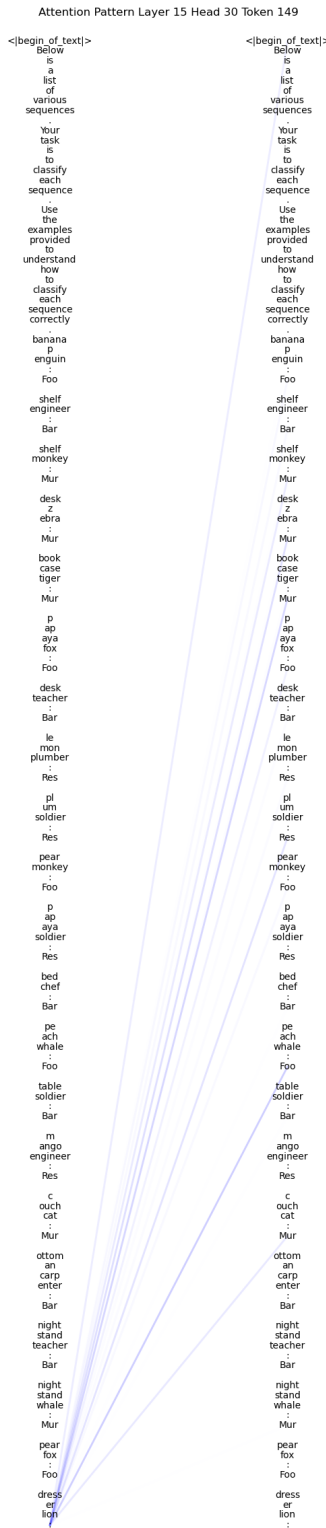
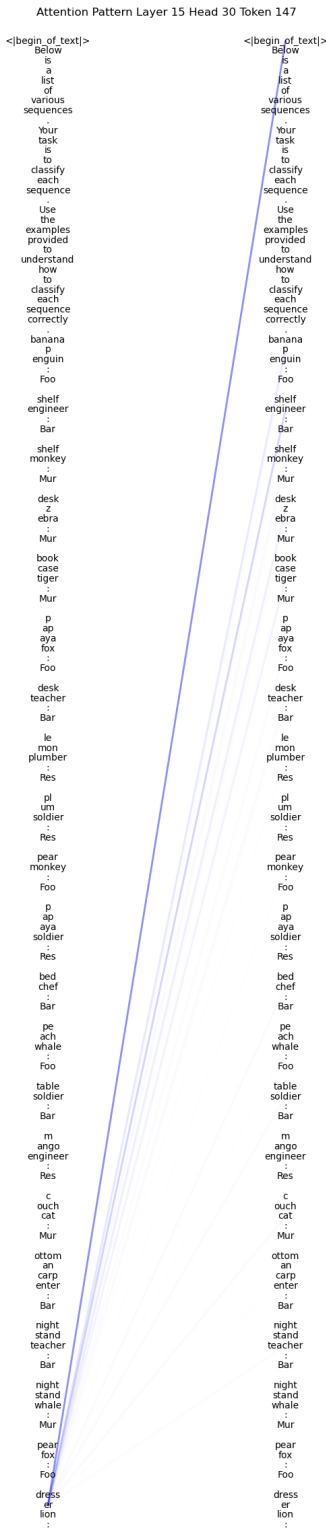


Figure 25: Attention pattern of token 147 in head 30 of layer 15 in Llama-3-8B. Example 2/5.

Figure 26: Attention pattern of token 149 in head 30 of layer 15 in Llama-3-8B. Plot 2/5.

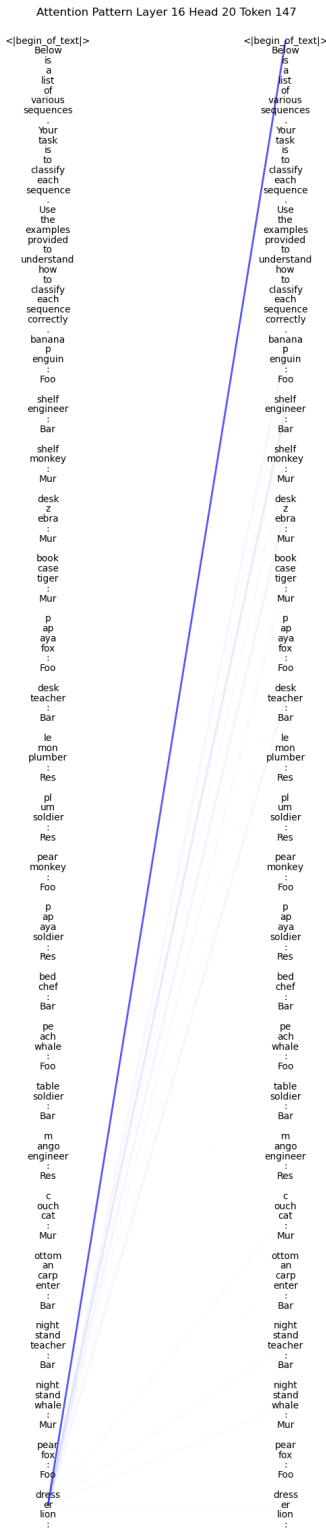


Figure 27: Attention pattern of token 147 in head 20 of layer 16 in Llama-3-8B. Example 2/5.

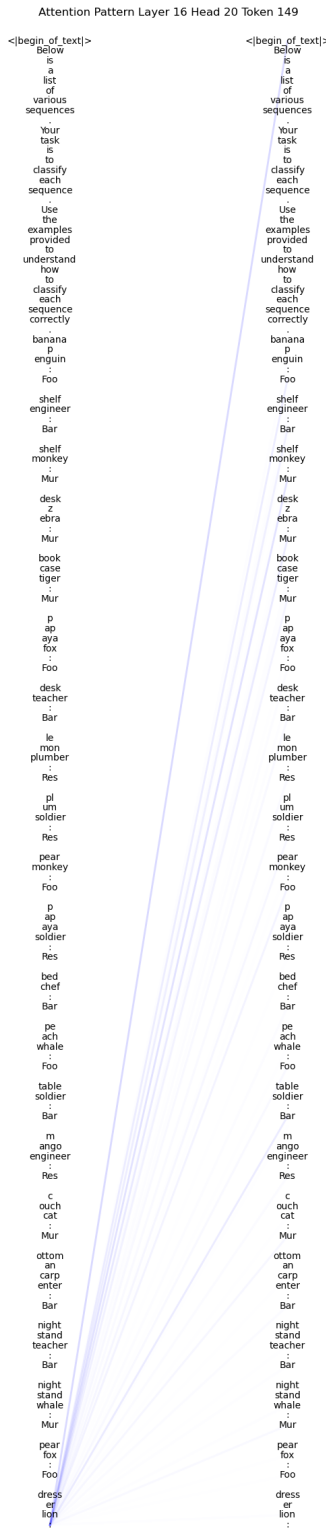


Figure 28: Attention pattern of token 149 in head 20 of layer 16 in Llama-3-8B. Plot 2/5.

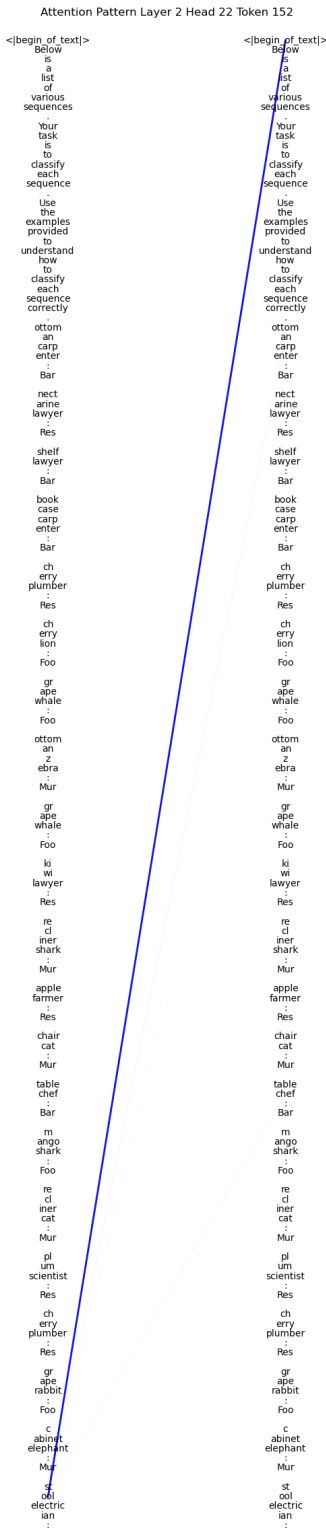


Figure 29: Attention pattern of token 152 in head 22 of layer 2 in Llama-3-8B. Example 3/5.

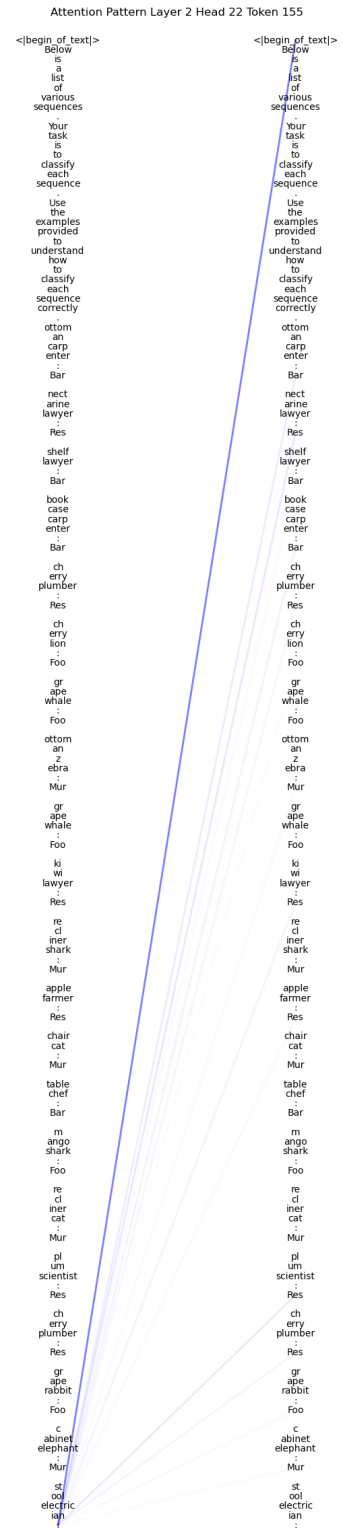


Figure 30: Attention pattern of token 155 in head 22 of layer 2 in Llama-3-8B. Plot 3/5.

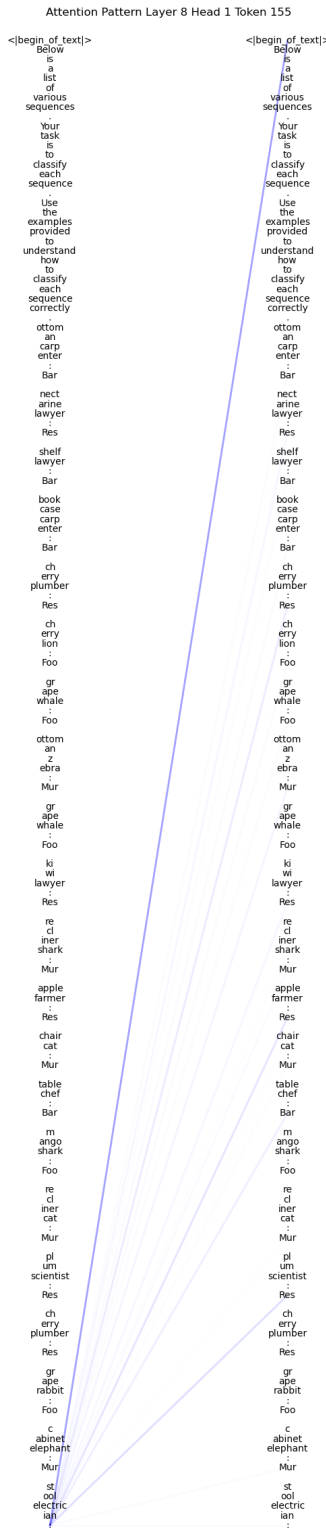
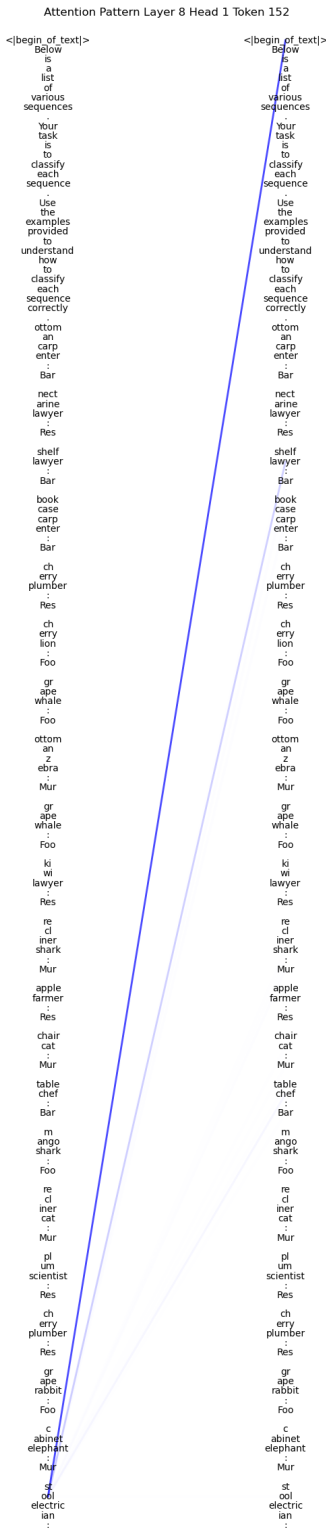


Figure 31: Attention pattern of token 152 in head 1 of layer 8 in Llama-3-8B. Example 3/5.

Figure 32: Attention pattern of token 155 in head 1 of layer 8 in Llama-3-8B. Plot 3/5.

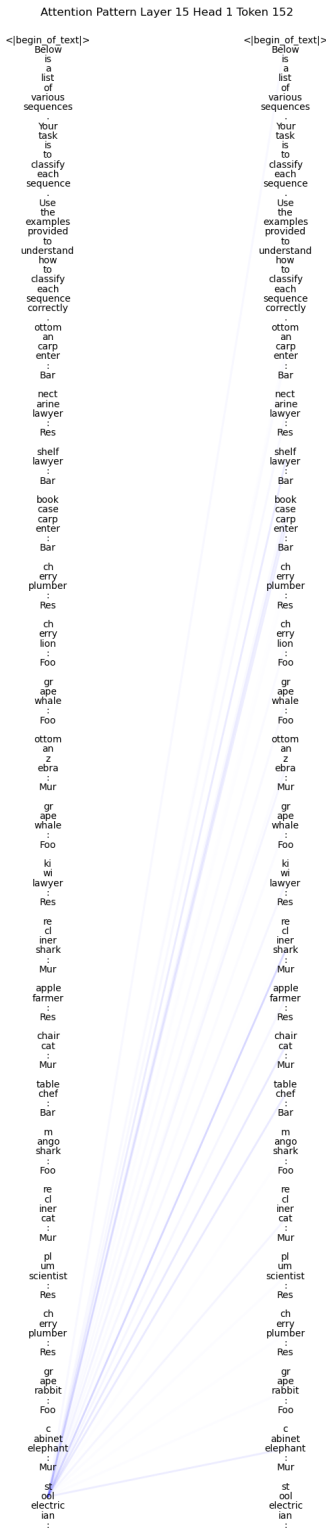


Figure 33: Attention pattern of token 152 in head 1 of layer 15 in Llama-3-8B. Example 3/5.

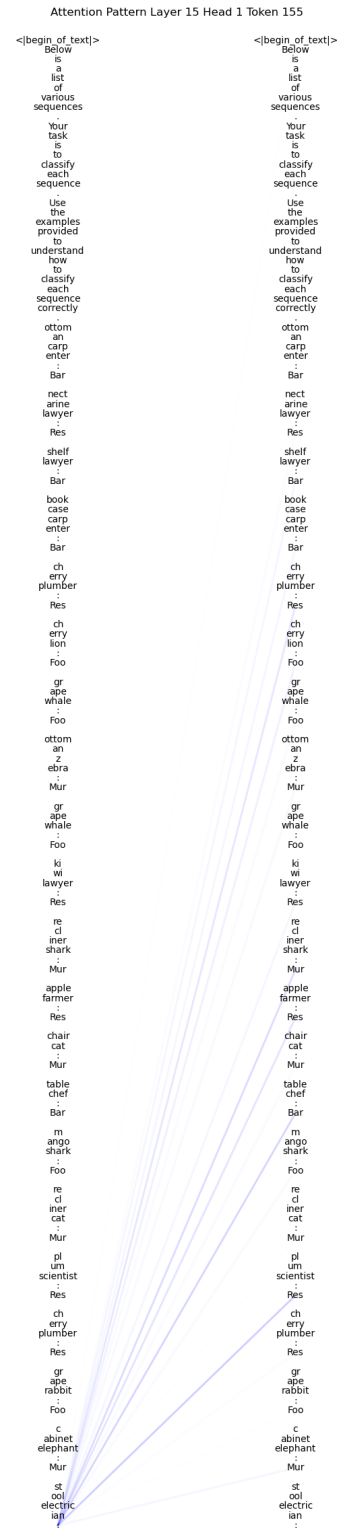


Figure 34: Attention pattern of token 155 in head 1 of layer 15 in Llama-3-8B. Plot 3/5.

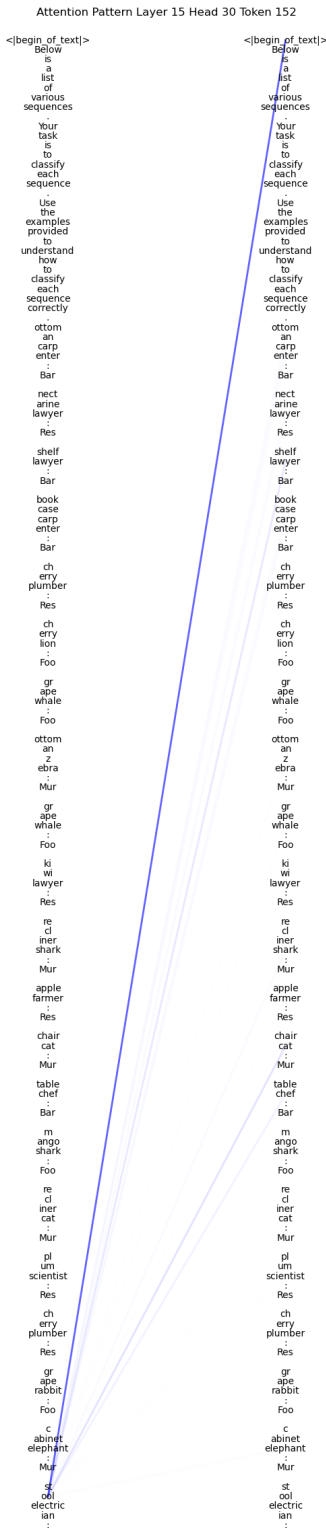


Figure 35: Attention pattern of token 152 in head 30 of layer 15 in Llama-3-8B. Example 3/5.

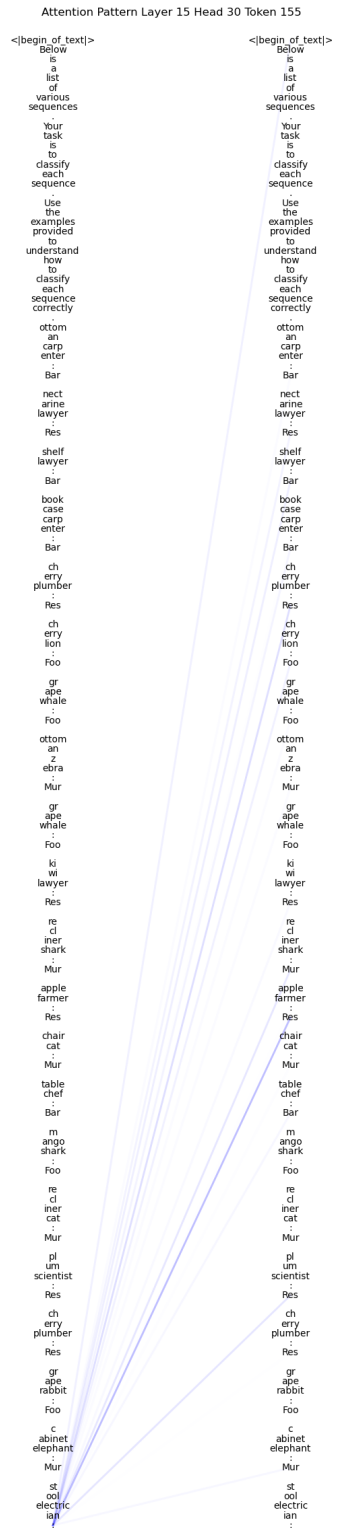


Figure 36: Attention pattern of token 155 in head 30 of layer 15 in Llama-3-8B. Plot 3/5.

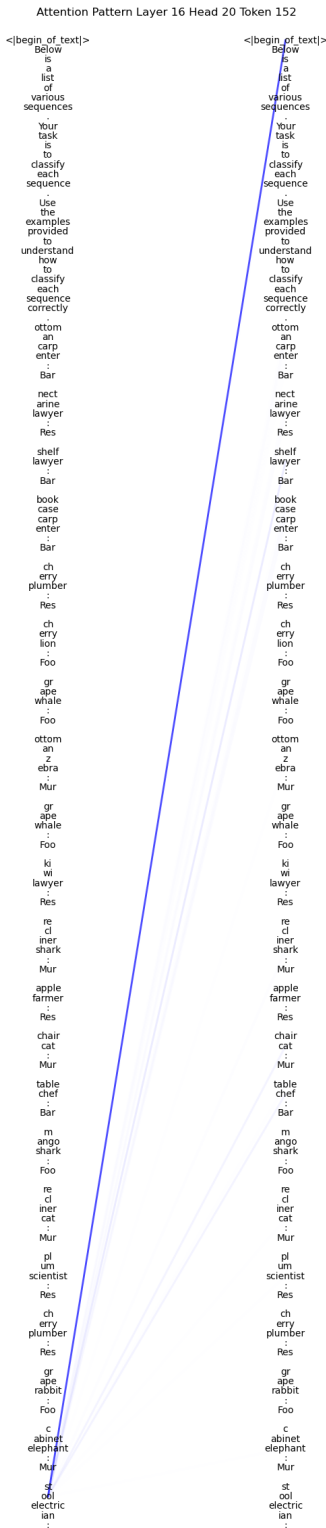


Figure 37: Attention pattern of token 152 in head 20 of layer 16 in Llama-3-8B. Example 3/5.

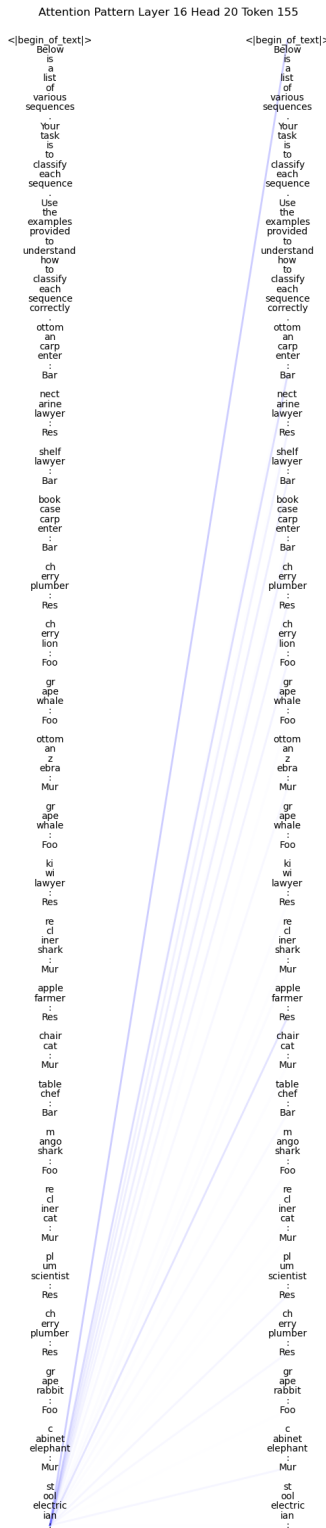


Figure 38: Attention pattern of token 155 in head 20 of layer 16 in Llama-3-8B. Plot 3/5.

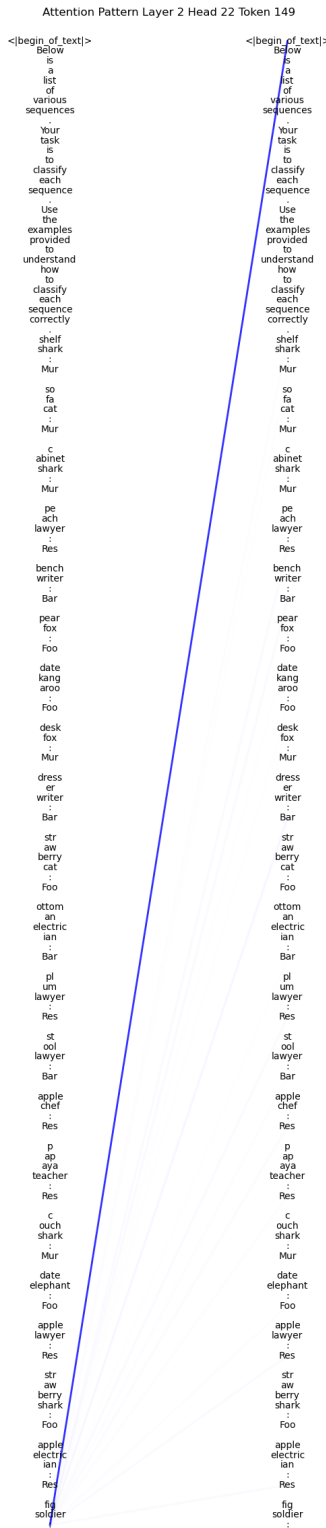
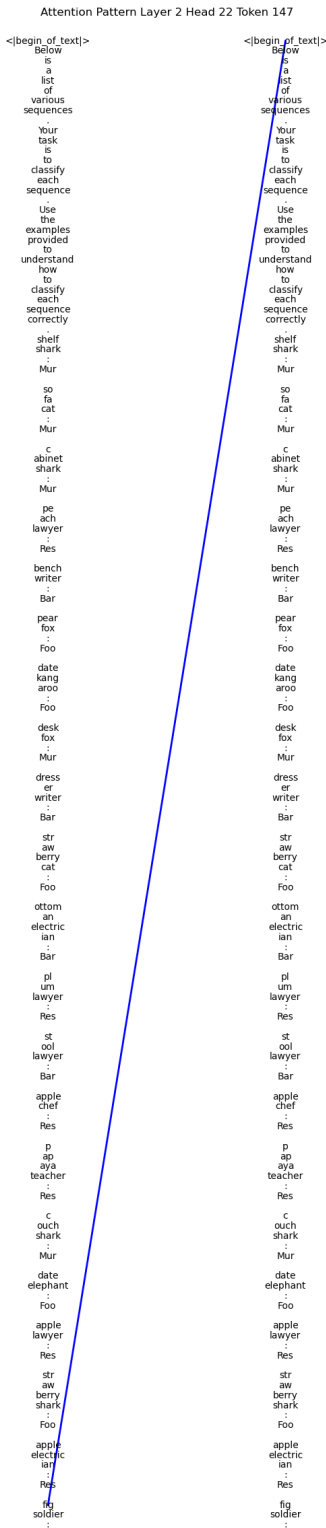


Figure 39: Attention pattern of token 147 in head 22 of layer 2 in Llama-3-8B. Example 4/5.

Figure 40: Attention pattern of token 149 in head 22 of layer 2 in Llama-3-8B. Plot 4/5.

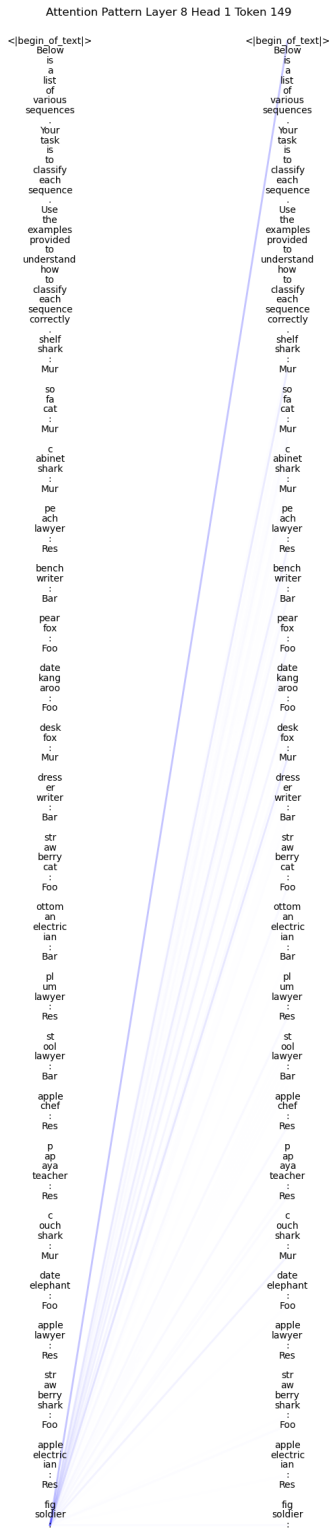
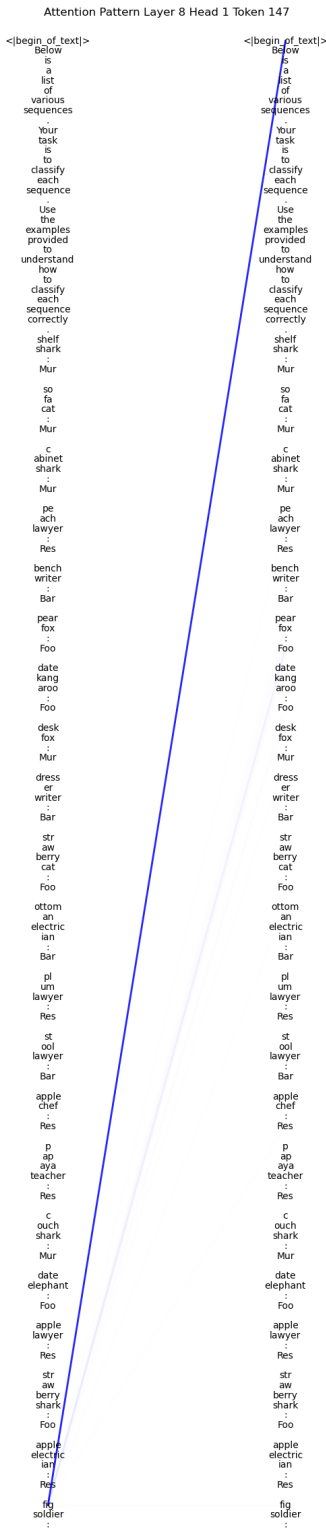


Figure 41: Attention pattern of token 147 in head 1 of layer 8 in Llama-3-8B. Example 4/5.

Figure 42: Attention pattern of token 149 in head 1 of layer 8 in Llama-3-8B. Plot 4/5.

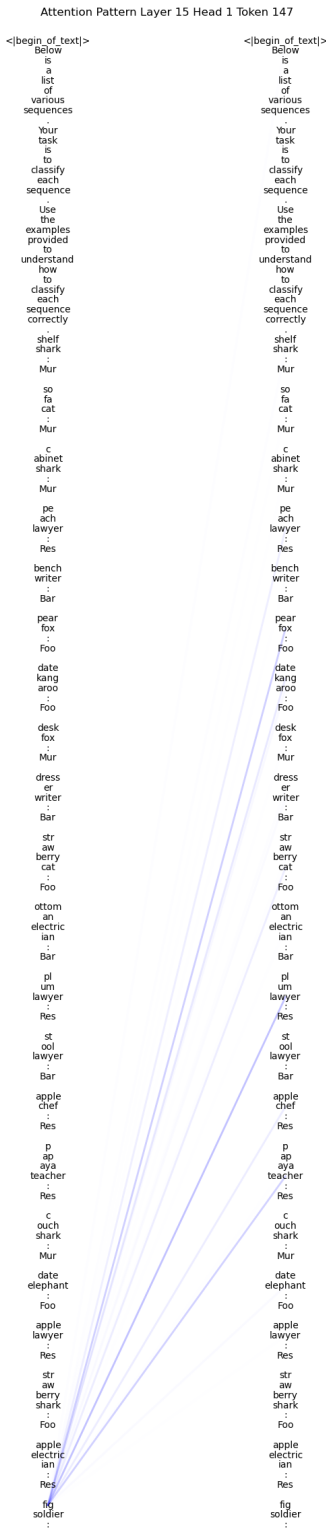


Figure 43: Attention pattern of token 147 in head 1 of layer 15 in Llama-3-8B. Example 4/5.



Figure 44: Attention pattern of token 149 in head 1 of layer 15 in Llama-3-8B. Plot 4/5.

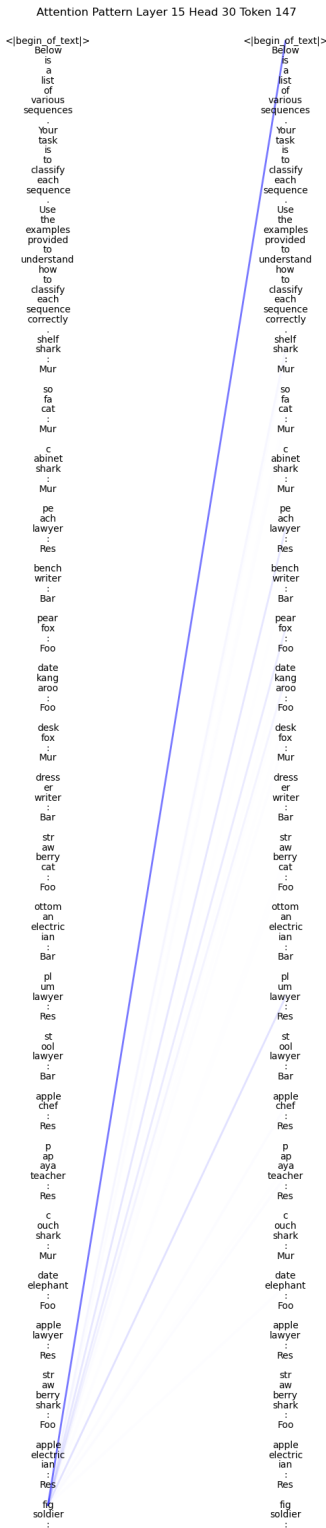


Figure 45: Attention pattern of token 147 in head 30 of layer 15 in Llama-3-8B. Example 4/5.

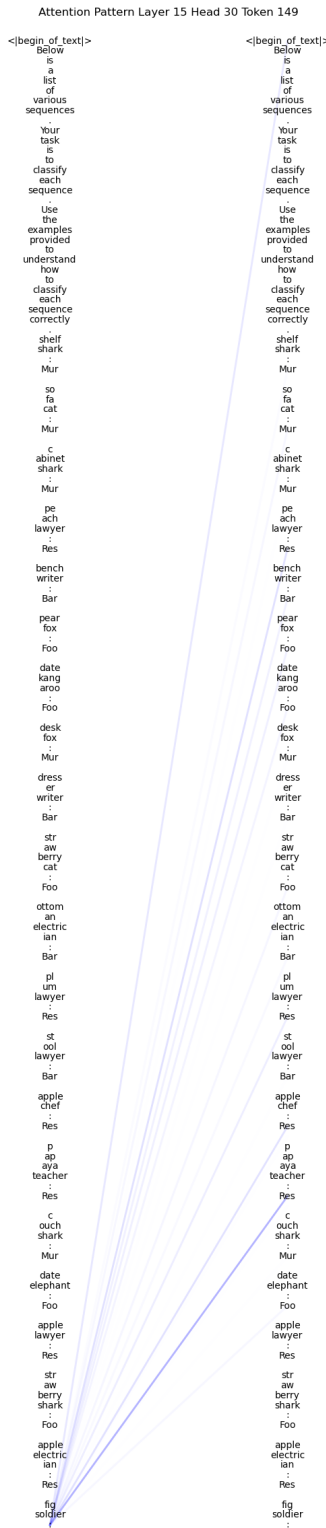


Figure 46: Attention pattern of token 149 in head 30 of layer 15 in Llama-3-8B. Plot 4/5.

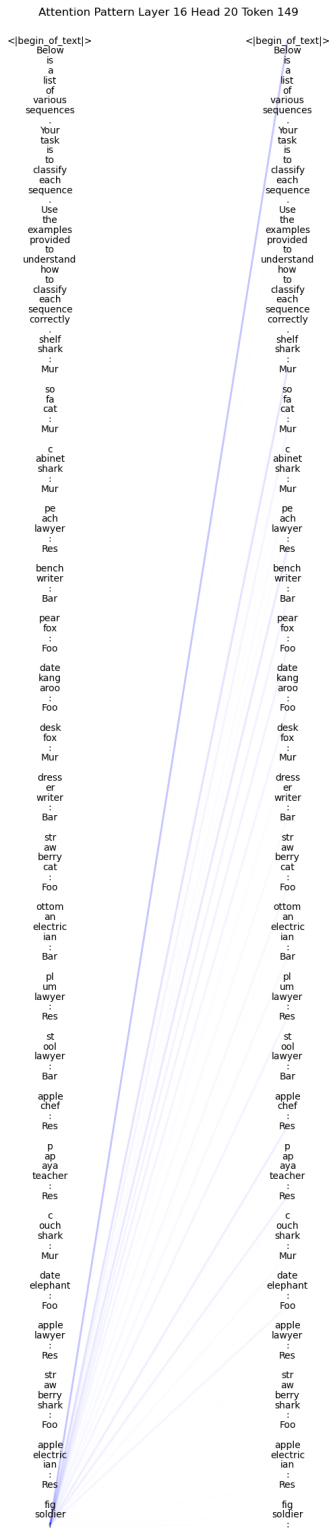
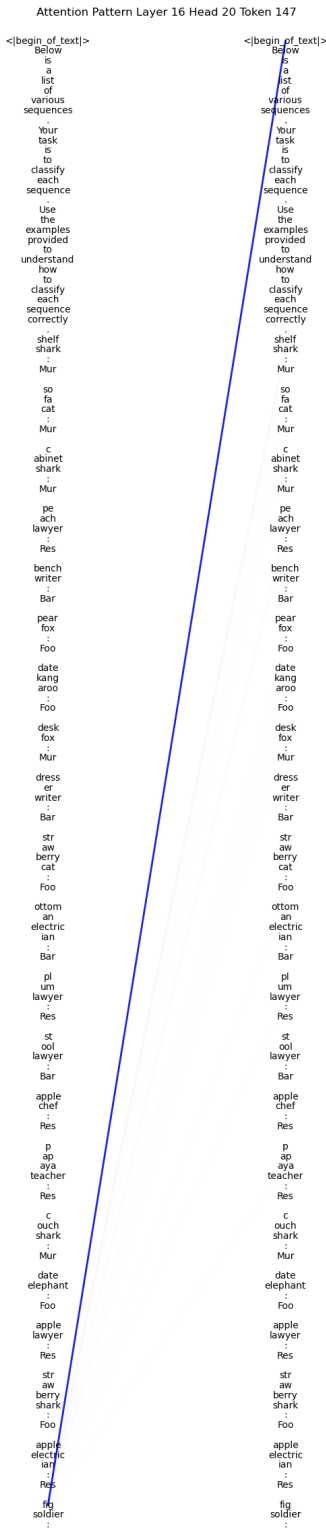


Figure 47: Attention pattern of token 147 in head 20 of layer 16 in Llama-3-8B. Example 4/5.

Figure 48: Attention pattern of token 149 in head 20 of layer 16 in Llama-3-8B. Plot 4/5.

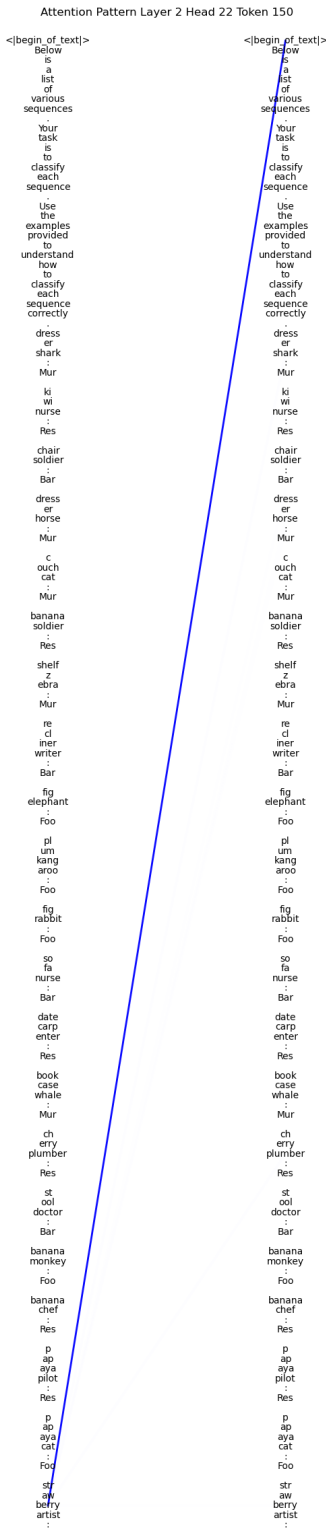


Figure 49: Attention pattern of token 150 in head 22 of layer 2 in Llama-3-8B. Example 5/5.

Figure 50: Attention pattern of token 152 in head 22 of layer 2 in Llama-3-8B. Plot 5/5.



Figure 51: Attention pattern of token 150 in head 1 of layer 8 in Llama-3-8B. Example 5/5.



Figure 52: Attention pattern of token 152 in head 1 of layer 8 in Llama-3-8B. Plot 5/5.



Figure 53: Attention pattern of token 150 in head 1 of layer 15 in Llama-3-8B. Example 5/5.



Figure 54: Attention pattern of token 152 in head 1 of layer 15 in Llama-3-8B. Plot 5/5.

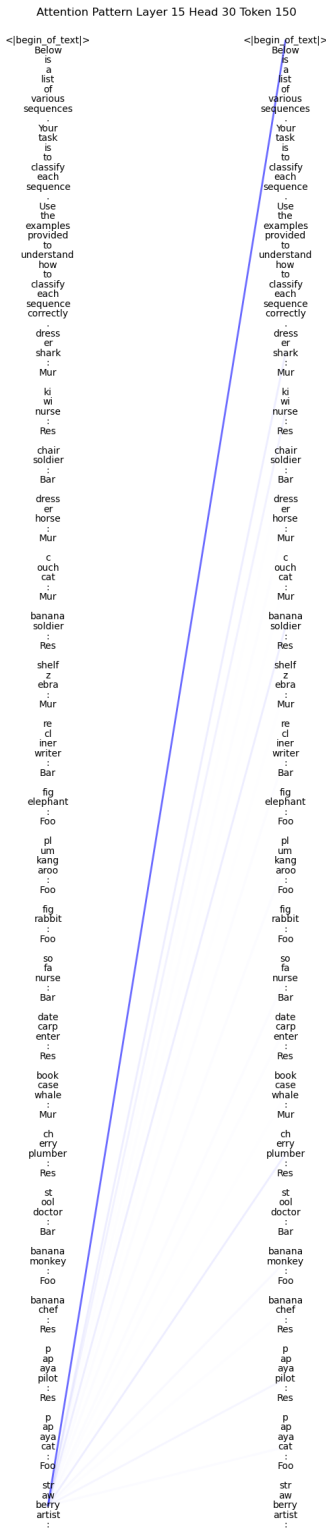


Figure 55: Attention pattern of token 150 in head 30 of layer 15 in Llama-3-8B. Example 5/5.

Figure 56: Attention pattern of token 152 in head 30 of layer 15 in Llama-3-8B. Plot 5/5.

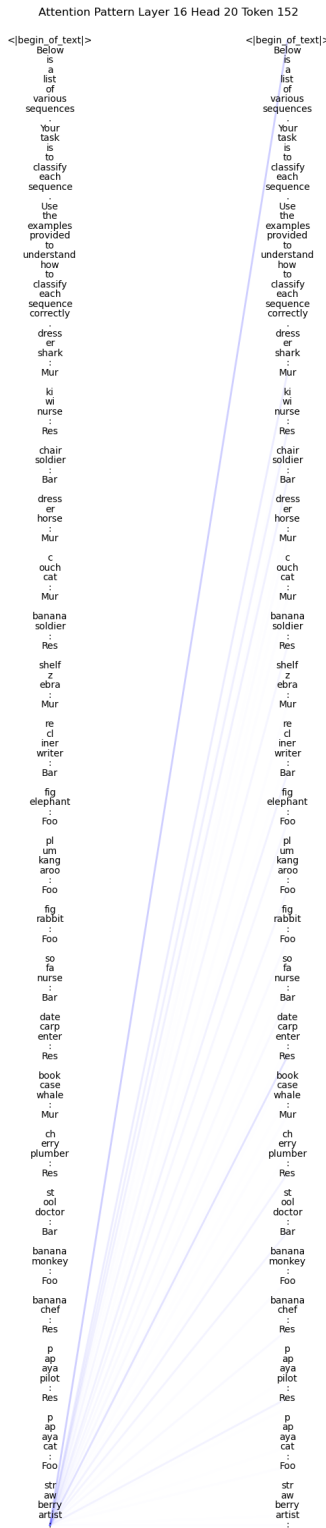


Figure 57: Attention pattern of token 150 in head 20 of layer 16 in Llama-3-8B. Example 5/5.

Figure 58: Attention pattern of token 152 in head 20 of layer 16 in Llama-3-8B. Plot 5/5.