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To: Education Materials Chairs, NeurIPS 2025
Subject: Submission to the NeurIPS 2025 Call for Education Materials

Dear Education Materials Chairs,

I am pleased to submit our educational resource, *From Data to CO_2: The Hidden Climate Cost of Artificial Intelligence*, to the NeurIPS 2025 Education Track. The resource is designed for non-expert audiences and aligns with the call's goals of accessible, engaging, and reusable AI education materials.

Audience & Engagement **Target audience:** high school students, undergraduate students in non-CS majors, educators, and general public with no prior AI background.
Expected engagement time: 10 minutes (visual explainer + interactive visualization + blog-style explainer; optional 4-minute video).

Overview The material explains the environmental impact of training and running large language models (LLMs) in clear, non-technical terms. Using a curated dataset of well-known AI models with reported or estimated CO_2 emissions and citations to credible sources, the interactive visualization contextualizes emissions via tangible equivalents (e.g., trees required to absorb the carbon; years of an average person's CO_2 footprint). The goal is to support critical thinking about AI sustainability while remaining approachable and classroom-ready.

Submission Components

- **Infographic:** `infographic.pdf` and `infographic-references.txt`
- **Short Video Explainer:** overview of concepts and key takeaways (`explainer.mp4`, 4 minutes)
- **Blog-Style Document:** overview of concepts and key takeaways (`explainer.pdf`, 3 minutes read time)
- **Interactive Visualization:** Carbon Footprints of LMs.mhtml
- **GitHub Repository (source code & dataset):** github.com/maximus-powers/neurips-c02-viz

Educational Value & Reusability The resource is concise, modular, and easily adoptable in lessons, clubs, and outreach. It includes transparent references, open access to data and code, and clear descriptions educators can adapt to different time budgets and learner levels.

Authorship This material has been prepared with and for high school learners to promote AI literacy and climate awareness.

Thank you for your consideration. I would be delighted to share this resource with the NeurIPS community and support its dissemination to educators and students.

Sincerely,
Mahveen Raza