JATIN DEEP SINGH

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PROFESSIONAL EXPERIENCE

J. P. Morgan, New York, NY

Oct 2021 - Present

Lead Applied Scientist – Corporate Investment Banking, Treasury and Merchant Services

- Lead a team of Applied Scientist for developing and deploying AI/ML Solutions in Corporate Investment Banking
- Utilized Natural Language Processing techniques to implement LLM like FinBert for transaction search, provided data insights using Tableau.
- Led the development and deployment of State-of-Art Cash Flow forecasting model using time series modelling Techniques and ensemble learning.
- Strategically conceived a Deep Reinforcement Learning Trading bot, employing state-of-the-art actor-critic methods using pytorch. Achieved a 1.5+ Sharpe through daily portfolio rebalancing.

American Express, New York, NY

Feb 2019 - Sep 2021

Data Scientist -New Accounts Decision Science Team

- Developed NLP Data Pipelines in Production to ingest, spell correct and standardise free text Employer Intelligence
- Enhanced Discrimination of Production Credit Default Model using Employer Intelligence, Sub-Prime Bureau Intelligence and Trended Intelligence leading to \$ 2 Million Net Pre-Tax Income enhancement
- Devised an end-to-end capability to deploy proprietary Amex XGBOOST Credit Default Models to Third Party Platforms leading to acquisition of Premium Prospect with \$1 Million Net Pre-Tax Income enhancement

Roc Capital Holdings LLC, New York, NY

Sept 2018 – Dec 2018

Data Science Intern – Data Science Team

- Built Front End Solutions to ingest Property Appraisal PDF's and Extract key Contributing fields
- Developed the First-Generation Credit Default Models using mix of Bureau, Property and Individual Level Attributes

American Express, New York, NY

Jun 2018 - Aug 2018

Data Science Intern -New Accounts Decision Science Team

- Developed next generation of Credit Variables using Trended Tradeline Data using Pyspark, SQL and Hive
- Used XGBOOST Algorithm and Recurrent Neural Networks to predict Credit Default using Python and Keras

Cognizant Technology Solutions, Bangalore, IN

Jul 2016 - Jul 2017

Data Scientist – Analytics and Information Management

- Worked with Health Care and E-Commerce clients developing tailored Artificial Intelligence and Machine Learning Algorithms specific to business needs
- Devised a Personalised Sequential Activity Generator for IoT wearables in python using Markov Decision Process Algorithm providing prescriptive analytics for fitness apps dashboards dominated with descriptive analytics solutions
- Developed Clustering and Time Series Forecasting Models to predict monthly demand on Store Keeping Unit level using python and Tableau for a leading pharma company in South Korea.

EDUCATION

Columbia University, New York, NY

Aug 2017 - Dec 2018

Master of Science in Financial Engineering, GPA: 3.8/4

Current coursework: Big Data in Finance, Machine Learning, Reinforcement Learning, Monte Carlo Simulation, Continuous Time Models, Partial Differential Equations, Optimization Models, Stochastic Models, Foundations of Financial Engineering Honours: Recipient of Columbia Financial Engineering Graduate Fellowship

Indian Institute of Technology, Gandhinagar, IN

Jul 2012 – Apr 2016

Bachelor of Technology, Electrical Engineering, Institute Gold Medallist, GPA: 9.5/10

Relevant coursework: Calculus, Computing in C, Differential Equations, Linear Algebra, Complex Analysis, Real Analysis, Probability and Random Processes, Number Theory

Honours: Selected for **S. N. Bose Scholars Program 2015** conducted by Indo-US Science and Technology Forum(IUSSTF), Recipient of **Award** for the best performance in core courses of Mathematics from IIT Gandhinagar

SKILLS

Coursera Certifications: Data Visualization and Communication with Tableau, Neural Networks and Deep Learning, Introduction to Data Science in Python, Applied Plotting, Charting & Data Representation in Python, Applied Machine Learning in Python Tools and Programming Languages: PySpark, Python, Keras, Tableau, HIVE, SAS, R, C/C++, MATLAB, Microsoft Excel