

Vibha Masti

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EDUCATION

Carnegie Mellon University	Pittsburgh, PA
Master of Computational Data Science (MCDS)	December 2024
GPA: 4.33/4.00. Relevant coursework: Introduction to Deep Learning, Introduction to Machine Learning, Foundations of Computational Data Science	
PES University	Bangalore, India
Bachelor of Technology in Computer Science and Engineering	May 2023
GPA: 9.84/10.00. Relevant coursework: Natural Language Processing, Machine Intelligence, Data Analytics, Big Data	
Prof. CNR Rao Scholarship (top 2%), Immense Contribution Award.	

SKILLS

Programming Languages: Python (advanced), C/C++ (intermediate), Java (basic), R, SQL

Machine Learning: PyTorch, TensorFlow, pandas, numpy, scikit-learn, HuggingFace, Azure ML

EXPERIENCE

Apple	Bangalore, India
Software Engineering Intern	Jan 2023 – Jun 2023
<ul style="list-style-type: none">Developed and deployed classification models for issue tickets in the Cellular Systems Analysis team, collected and cleaned expert-annotated dataImproved on existing rule-based classification system's micro-F1 score by 35%	
PES University	Bangalore, India
Teaching Assistant	Fall 2022, Spring 2023
<ul style="list-style-type: none">Network Analysis and Mining (S23) – created graph ML coding assignments using networkx, PyTorch, PyTorch Geometric, graded 180+ final projects and assignmentsData Analytics (F22) – created visual lecture slides and notes, recorded 12 hours of lectures, designed visualization, cleaning, and model building assignments in R/Python	
Goldman Sachs	Bangalore, India
Summer Analyst	Jun 2022 – Jul 2022
<ul style="list-style-type: none">Designed new efficient document data models to store mathematical constraints, replacing old relational data store and reducing fetch times by 85%	
Netradyne	Bangalore, India
Project Intern	Jun 2021 – Jul 2021
<ul style="list-style-type: none">Created a web tool to visualize GPS data on an interactive map with search filtersCalculated and displayed cumulative statistics at different levels of aggregation and for different geographical areas	

PUBLICATIONS

- H. M. Kumar, V. Veerendranath, **V. Masti**, D. Shekar, and B. Das, "GraphCoReg: Co-training for regression on temporal graphs", in *18th International Workshop on Mining and Learning with Graphs*, ECML-PKDD, 2022.
- V. Masti**, V. Veerendranath, and H. M. Kumar, "Multivariate Covid-19 forecasting with vaccinations as a factor: The case of India and USA", in *2022 IEEE Region 10 Symposium (TENSYP)*, IEEE, 2022, pp. 1–6 and Workshop on Healthcare AI and COVID-19, ICML 2022.
- V. Veerendranath, **V. Masti**, P. Anagani, and M. HR, "C3PO: A lightweight copying mechanism for translating pseudocode to code", *AACL-IJCNLP 2022*, p. 47, 2022.
- H. Chaudhuri, **V. Masti**, V. Veerendranath, and S. Natarajan, "A comparative study of algorithms for intelligent traffic signal control", *Machine Learning and Autonomous Systems*, p. 271, 2021.