

# Vibha Masti

[vibhamasti.github.io](https://vibhamasti.github.io) | (412) 214-2188 | [vmasti@andrew.cmu.edu](mailto:vmasti@andrew.cmu.edu) | [linkedin.com/in/vibha-masti](https://linkedin.com/in/vibha-masti)

## 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, On-Device Machine Learning

### 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, Network Analysis and Mining. Prof. CNR Rao Scholarship (top 2%), Immense Contribution Award

## SKILLS

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

**ML Libraries/Frameworks:** PyTorch, TensorFlow, pandas, numpy, scikit-learn, HuggingFace

**Miscellaneous:** Azure ML, Git, LaTeX, Flask, FastAPI, React

## EXPERIENCE

### Apple

Bangalore, India

Software Engineering Intern

Jan 2023 – Jun 2023

- Trained and deployed text classification models for issue tickets in the Cellular Systems Analysis team, both in supervised and few-shot settings
- Improved on existing rule-based classification system's micro-F1 score by 35%

### PES University

Bangalore, India

Teaching Assistant

Fall 2022, Spring 2023

- **Network Analysis and Mining (S23)** – created graph ML coding assignments using networkx, PyTorch, PyTorch Geometric, graded 180+ final projects and assignments
- **Data 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

- 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

- Created a web tool to visualize GPS data on an interactive map with search filters, calculated and displayed cumulative statistics at different levels of aggregation and for different geographical areas

## SELECTED PUBLICATIONS

### C3PO: A lightweight copying mechanism for translating pseudocode to code

Presented at the Student Research Workshop, **AACL-IJCNLP 2022**

### GraphCoReg: Co-training for regression on temporal graphs

Best Student Paper at the 18th International Workshop on Mining and Learning with Graphs (MLG), **ECML-PKDD 2022**

### Multivariate Covid-19 forecasting with vaccinations as a factor: The case of India and USA

Presented at the IEEE Region 10 Symposium (TENSYP) 2022 and Workshop on Healthcare AI and COVID-19, **ICML 2022** (Track 2)

## PROJECTS

### Automated Film Soundtrack Generation

PyTorch, Python

- Pipeline to generate MIDI music from valence/arousal values from movie scene using generative models

### Sentiment Analysis with Streaming Spark

Python, Spark ML, sklearn

- Preprocessed (cleaned, tokenized) and performed sentiment analysis on streaming data (tweets)