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Naman Mansukhani

Sophomore at Carnegie Mellon University

Personal Website
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Education

Carnegie Mellon University - ***4.0 GPA*** **MAY 2025**

BS in Information Systems and Computer Science

- **Current Courses**
  15251: "Great Theoretical Ideas in Computer Science" - Advanced CS Theory
  15210: "Parallel & Sequential Data Structures Algorithms" - Advanced Algorithms & Data Structures
- **Courses Taken**
  15213: Computer Systems – A
  15122: Data Structures And Algorithms – A
  15150: Functional Programming – A
  21241: Linear Algebra – A

Technical Experience

Software Engineering Intern - Hora.AI **JUN 2022 — AUG 2022**

Remote

- Derived customer insights from the host of 4000+ customer call recordings.
- Created a pipeline for the transcription and sentiment analysis on call recording from customer service centers.
- Tools Used: Sentiment Analysis, NodeJS, AWS, Pandas.

Software Developer - Carnegie Mellon University **FEB 2022 — MAY 2022**

Pittsburgh, PA

- Developed analytic tools and API for regression on time-series data from scientific experiments.
- Reported to the Director of Scientific Computing, Dr. Florin Manolache.
- Tools Used: Applied Regression Analysis, Flask, Numpy, Pandas, Scikitlearn, and Bash scripting.

Research Intern - Pace Stock Broking Services **MAY 2020 — JUL 2020**

New Delhi, India

- Conducted hypothesis testing on Banking Index data through back-testing models on historical data.
- Mined stock market index composition data from PDF reports; analyzed trends in the Banking Sector.
- Tools Used: Time Series Analysis, Data Mining, Numpy, Pandas, and Matplotlib.

Projects

OCaml Coreutils - GitHub Repo **JUL 2022 — PRESENT**

- Rewrote the GNU Core Utilities in OCaml. Project is in active development, and I am rewriting popular GNU utilities using OCaml.

Raspberry Pi TV Streamer - GitHub Repo **OCT 2021 — NOV 2021**

- Built a Discord bot for streaming TV shows on a Raspberry Pi. Commands can be issued to a Discord bot to search for TV shows and select and run streams. Project converts a small computer into a portable streaming setup.

ML for Worker Fall Detection + iOS app for alerts - YouTube Demo **AUG 2020 — SEP 2020**

- Created a prototype of a motion-sensor mounted helmet for detecting falls. Collected and processed real-world time-series data.
- Sent alerts to an iOS app when falls were predicted using ML models trained on sensor data.

Skills

Languages	Python, JS, OCaml, C, SQL
Technologies	Flask, NodeJS, Numpy, Pandas, Scikit-learn, AWS
Others	Git, LaTeX, MongoDB

Honors & Achievements

National Talent Search Examination

- Top 0.2% among 1,000,000+ students in government-hosted Science and Math Exam.
- Qualified for lifelong academic scholarship.

Techonothlon @ IIT Guwahati

- Won the national problem-solving competition with 20,000+ participants at IIT Guwahati.
- Awarded a sponsored trip to the NASA Goddard Space Flight Center.

Moocs

Stanford Machine Learning Course by Prof. Andrew Ng on Coursera
Deep-learning Specialization by deeplearning.ai on Coursera

- Series of 5 courses on Deep Learning; covered Convolutional and Recurrent Neural Networks.