Naman Mansukhani
Sophomore at Carnegie Mellon University

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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	15150: Functional Programming – A
15122: Data Structures And Algorithms – A	21241: Linear Algebra – A

TECHNICAL EXPERIENCE

Software Engineering Intern - HoraAI　　　　　　　　　　　　**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 UNIX 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 - 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, and trained ML classifiers to detect falls. Connected this data to an iOS app for notifications.

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 2000 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.