Aditya Mahesh

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EDUCATION

University of Michigan, College of Engineering   Ann Arbor, MI
Bachelor of Science in Computer Science   *GPA: 3.72/4.00*   *Aug. 2022 - May 2025*
- Awards/Honors: $2000 Merit Scholarship, Dean's List and University Honors for 3 semesters
- Coursework: Data Structures and Algorithms, Machine Learning, Database Management Systems, Computer Organization, Foundations of Computer Science, Web Systems, Computer Networks

WORK EXPERIENCE

iOS App Developer   Aug. 2022 – Aug. 2023
Freelance   *Hershey, PA*
- Developed allergy app [Shivlet] using SwiftUI, Firebase Firestore, and Google Translate API - communicates allergies with language translation, text to speech, and core data functionality. Estimated to reach 1000 users.
- Built piano teaching app [Piano Guru] using UIKit, Firebase Authentication, Firebase Messaging, UserNotifications, In App Purchases. Targeted to reach 150 users.

Software Engineering Work Experience Mentee   July 2021 - Aug. 2021
Idox, ARM   *Remote*
- Shadowed Oracle DBA during database performance tuning. Also observed support services fixing technical issues for business application clients.
- Watched senior developer meetings in bug fixing a post-production product. Learned about AGILE development methodology in Jira, and software product development. Attended project meetings of developers, analysts, product teams.

PROJECTS

Michigan Student AI Lab Project Team, Michigan Hackers Web Team   Aug 2023 - Jan 2024
University of Michigan   *Ann Arbor, MI*
- Coded NLP neural network to output music lyrics for sequence of words using LSTMs and modelling an LLM.
- Programmed a threads website using React and Node, used a REST API to coordinate data to an online database, learned essentials of web development.

Data Science Competition | *PyTorch, Tensorflow, Pandas, Matplotlib*   Sep. 2020 – Aug. 2022
- Top 5% in international data science competition, made recommendations to understand factors which helped prevent spread of Ebola.
- Performed EDA, modelling, train/test and results analysis on Kaggle dataset, designed graphs and scored each hospital using machine learning algorithms.
- Created RGB colorization neural network to colorize WW2 images, coded K-Means Clustering algorithm & SVM.

Research Student   June 2024 - Present
Lifelong Learning Lab, University of Michigan   *Ann Arbor, MI*
- Wrote django scripts to visualize peer-review student feedback for Econ 101 essay assignments. Generated some feedback using prompt engineering. Liaised with professors and students of Econ 101 to fine-tune capabilities to their liking. Will be tested on Econ 101 students in Fall 2024.

Research Student   May 2024 - Present
Launch Lab, University of Michigan   *Ann Arbor, MI*
- "Dealing with Everyday Hazards: Investigation of Non-Emergency City Service Requests" analyzed impact of Improve Detroit initiative + determined whether it alleviated or reduced the typical volume of 911 calls.
- Conducted spatiotemporal analyses, difference- in-difference (diff-in-diff) analysis +web-scraping of related policies. Explored NLP based approaches.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, Java, Swift, Flutter
Frameworks: NodeJS, ReactJS
Developer Tools: VS Code, Xcode
Libraries: PyTorch, Tensorflow, pandas, NumPy, Matplotlib, Scikit-learn, Keras