Sai Pulavarthy

203-906-0164   saishanmukha.pulavarthy@gmail.com   Linkedin

Education

University of Massachusetts Amherst   **Expected May 2027**
B.S. in Computer Engineering   *Amherst, MA*

Relevant Coursework: Introduction to Programming (Python), Computational Tools in ECE (MATLAB/Excel), Advanced Programming (Python)

Relevant Experience

UMass Amherst iCons Research Program   **December 2023 – Present**
Research Fellow   *Amherst, MA*

- Selected to a highly competitive STEM program which is a 20-credit undergrad certificate program that aims to inspire innovators and skills that are needed to face societal challenges.
- Focused on Social Impact and Rural Implementation of Wind Energy Project in iCons 1 Case Study 2 with a group of four.
- Analyzed Social Impacts: Assessed how wind energy affects communities, economies, and individuals.
- Sentiment Analysis Model: Developed a comprehensive model using data from social media, online forums, news articles, and other sources to ensure data reliability and diversity.
- Innovative Solution: Created a physical 3D printed model of a wind-powered energy storage system with potential for implementation in rural areas.

Alias Technologies   **August 2023 – October 2023**
Prompt Engineering Intern   *Remote*

- Was part of the company's Apple Developer Program to help develop, distribute, and manage Alias Technologies apps on the App Store.
- Worked on BeFake AI app, mobile application development, user experience, and building online communities.
- Took pictures of ages between 18-34 and uploaded them to the BeFake AI app and to understand the process for generating an AI-based photo.

Projects

Study Resources Website (*Hack UMass*)   **November 2023**

Javascript, HTML/CSS, My SQL, AngularJS

- Used full stack development tools and developed a Learning motivation website that includes motivational quotes, study music and helpful resources.
- Played a pivotal role in conceptualizing, developing, and deploying a cutting-edge website. Collaborated with a cross-functional team of four.

Stock Price Prediction Using Linear Regression Model and Neural Networks   **July 2022 - December 2022**

Python, Google Collab, Python Libraries

- Conducted a research project along with a mentor about Stock price forecasting using Python.
- Worked with Linear Regression and Neural Networks for stock price forecasting, using python libraries.
- Investigated the level of accuracy of stock market prediction using raw data inputs and linear regression approach.
- Explored yfinance-a Python library to pull current and historical stock market prices into this Python program.

Outfitting a Mars Habitat: 3D Technological Design   **November 2022**

CAD, 3D Digital Design/Modeling, Microsoft Applications

- Worked with a 6-person team for an international hackathon focused on NASA Challenges involving a wide range of issues at the forefront of Earth, Space science and Hardware technology.
- Individually defined specifications and used Onshape software to design technological prototypes which would assist astronauts in one-year missions.
- Individually referred to Space agency data (ARC 3D Models Database, NASA Analog Missions, and Humans in Space) for constructing the prototypes.

Technical Skills

Languages: Python, Javascript, Java, MATLAB, C, HTML/CSS, SQL
Technologies/Developer Tools: React.js, Express.js, AngularJS, Pandas, VS Code, Linux, Github, Azure, Onshape, Adobe