Madhav Malladi

Dublin, CA | 925-640-5791 | madhav.malladi25@gmail.com | LinkedIn | GitHub | Portfolio

Education

Rutgers University-New Brunswick — New Brunswick, NJ
Bachelor of Science in Computer Science | Minor in Statistics — *Expected Graduation, May 2027*

- CS Department GPA: 4.0
- Relevant Coursework: Data Structures, Computer Architecture, Discrete Structures 1, Introductory Linear Algebra, Statistics II, Principles of Computer Science
- Activities and Societies: Undergraduate Student Alliance of Computer Scientists, Data Science Club

Dougherty Valley High School — San Ramon, CA
High School Diploma — *Graduated June 2024*

- Relevant Coursework: AP Computer Science A (5), AP Calculus AB(5) BC(5), AP Statistics (5), AP Physics C: Mechanics, VS.Net(C) Programming
- 12 AP Courses → 2x AP Scholar with Distinction (2023 2024)

Experience

Polygence | Python, Machine Learning, Jupyter Notebook — July 2023 – July 2024
Machine Learning Researcher — *Remote*

- Coded a machine-learning model, using the ReLU activation function, to predict whether or not a player made the All-NBA team in a given season
- Achieved >**90%** test accuracy using **Tensorflow** and **Sci-kit Learn**
- Data management and visualization with **Pandas/NumPy/Matplotlib**
- Completed a machine-learning and statistical analysis research project, researching relevant activation functions

FIRST Robotics Team #9125 | Java, OOP, Computer Vision (OpenCV), Git — Sep. 2022 – Aug. 2024
Lead Software Engineer and Team Technician — *Livermore, CA*

- Coded my team's robot using Java object-oriented programming, utilizing numerous libraries including REV Robotics and Limelight cameras.
- Managed the development of my team's code over a 3-month span, leading a team of 7 software engineers
- Developed swerve drive and integrated OpenCV-based vision, leading to a **10x increase** in Offensive Power Rating (OPR) through improved autonomous scoring and driver navigation
- Team Qualified for **2023 World Championships** → Winners of 'Rookie Highest Seed' award at Milstein Division

Projects

Full-Stack Stock Predictor | GitHub | *Flask, Python, React, Tensorflow, AWS* — Feb. 2025 – Present

- Creating a web application that predicts future stock prices for a user-selected company
- Flask for the backend, Tensorflow for machine learning, React.js for the frontend
- Plan to host using AWS

Music Wordle | GitHub | Game | *React, JavaScript, HTML/CSS* — Nov. 2024 – Dec. 2024

- Developed a Wordle-style guessing game in which the user attempts to guess a randomized Spotify top-artist
- Implemented an interactive search functionality for users to guess an artist, enhancing the user experience
- Designed a responsive UI using React.js and HTML/CSS for seamless gameplay

All-NBA Team Prediction Model | GitHub | Article | *Python, Machine Learning, Jupyter Notebook* — July 2024

- Coded a ReLU activation function to predict whether or not a player made the All-NBA team in a given season, utilizing an NBA API to gather data from every player in that season.
- Achieved >90% accuracy using Tensorflow and Sci-kit Learn

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, RISC-V Assembly
Libraries/Frameworks: Pandas, Flask, NumPy, React.js, PostgreSQL, Matplotlib, Tensorflow, Sci-kit Learn
Developer Tools: Git, Jupyter Notebook, Visual Studio Code