Madhav Malladi

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EDUCATION

Rutgers University-New Brunswick — **New Brunswick, New Jersey**
Bachelor of Science (B.S.) in Computer Science and Data Science (double major) — *Expected Graduation, May 2027*

- CS Department GPA: 4.00/4.00 → Fall 2024 Dean's List award
- Relevant Completed Coursework: Data Structures, Principles of Computer Science, Introductory Linear Algebra
- Spring 2025 Coursework: Computer Architecture, Discrete Structures 1, Statistics II

Dougherty Valley High School — **San Ramon, California**
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 — **San Ramon, California (Remote)**
Machine Learning Researcher — *July 2023 – July 2024*

- Completed a machine-learning and statistical analysis research project, researching relevant activation functions
- 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
- >90% test accuracy
- Skills/Tools: Python (NumPy, Pandas, Matplotlib), Jupyter Notebook, Data Analysis, Machine Learning

FIRST Robotics Team #9125 — **Livermore, California**
Lead Software Engineer and Team Technician — *Sep 2022 – Apr 2024*

- Managed the development of my team's code over a 3-month span, leading a team of 7 software engineers
- Coded my team's robot using Java object-oriented programming, utilizing numerous libraries including REV Robotics and Limelight cameras.
- 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
- In charge of making quick modifications to our code based on the team gameplan
- Team Qualified for **2023 World Championships** → Winners of 'Rookie Highest Seed' award at Milstein Division
- Skills/Tools: Java, Computer Vision (OpenCV), Visual Studio Code, Git, Teamwork/Collaboration

PROJECTS

Full-Stack Stock Prediction Application (GitHub) — *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
- Skills/Tools: Python, Flask, Pandas, Machine Learning(Tensorflow), React.js

Music Wordle (GitHub / Game**)** — *Nov 2024 - Dec 2024*

- Developed a Wordle-style guessing game in which the user attempts to guess a randomized Spotify top-artist
- Skills/Tools: React.js, HTML/CSS, JavaScript

ReLU Activation Function to Predict All-NBA Teams (Medium Article / GitHub**)** — *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.
- >90% Test Accuracy
- Skills/Tools: Python (NumPy, Pandas, Matplotlib), Machine Learning(Tensorflow, Sklearn), Jupyter Notebook

SKILLS

Programming Languages: Java, Python, JavaScript, C++, C#, SQL, HTML/CSS
Libraries/Frameworks: Pandas, Flask, NumPy, React.js, PostgreSQL, Matplotlib, Tensorflow, Sklearn
Tools: Git, Jupyter Notebook, Visual Studio Code