

# 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

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

### Dougherty Valley High School

San Ramon, California

High School Diploma

Graduated June 2024

- o Relevant Coursework: AP Computer Science A (5), AP Calculus AB(5) & BC(5), AP Statistics (5), AP Physics C: Mechanics, VS.Net(C#) Programming
- o 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
- 98.94% 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 2023 – 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.
- 98.94% 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