# 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)

**De Anza College** — **Cupertino, California (Online)**
*Dual Enrollment Coursework* — *March 2023 - March 2024*

- Coursework**:** Beginning Programming Methodologies in C++, Python Programming, Introduction to Data Science, iOS Development

## EXPERIENCE

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

- Coded my team's robot using Java object-oriented programming, utilizing numerous libraries including REV Robotics and Limelight cameras. Utilized machine learning algorithms for object detection and camera vision.
- In charge of making quick modifications to our code based on the team gameplan
- Managed the development of my team's code over a 3-month span
- Team Qualified for 2023 World Championships
  - Winners of the 'Rookie Highest Seed' award at Milstein Division
- Skills/Tools: Java, Machine Learning, Computer Vision, Visual Studio Code, Git, Teamwork/Collaboration

**Polygence** — **San Ramon, California (Remote)**
*Student Researcher* — *July 2023 – July 2024*

- Completed a machine-learning and statistical analysis research project, researching relevant activation functions
- Coded a machine-learning model to predict whether or not a player made the All-NBA team in a given season
- Skills/Tools: Python (NumPy, Pandas, Matplotlib), Jupyter Notebook, Data Analysis, Machine Learning

## PROJECTS

**Full-Stack Crypto Prediction Application (**GitHub**)** — *Jan 2025 - Present*

- Creating a web application that predicts future stock prices for a user-selected company
- Flask for the backend, PyTorch for machine learning, React.js for the frontend. Plan to host using AWS
- Skills/Tools: Python, Flask, Pandas, Machine Learning(PyTorch), 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, C++, C#, Swift, HTML/CSS, JavaScript
**Libraries/Frameworks:** Pandas, Flask, NumPy, Matplotlib, Tensorflow, Sklearn, PyTorch, React.js
**Tools:** Git, Jupyter Notebook, Visual Studio Code