Atul Marichetty

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Education

Rutgers University–New Brunswick New Brunswick, NJ

Double B.S. in Computer Science and Mathematics — GPA: 3.93/4.0 *Graduating May 2027*

Coursework: Computer Architecture, Data Structures and Algorithms, Discrete I, Discrete II, Introduction to Computer Science, Statistics I, Linear Algebra, Calculus III, Calculus II, Calculus I, Physics 1, Physics II, Data 101

Experience

ServiceAgent Sept. 2025 – Present

AI Recruiting & Business Development Intern

- Designed and tested AI workflows using GPT, n8n, and Airtable to automate recruiting and outreach operations.
- Implemented and optimized data pipelines for client tracking and performance analytics.
- Collaborated with founder to deploy and refine AI-driven candidate sourcing and interview systems for staffing and tech clients.
- Created personalized automation demos and Loom-based product introductions for potential enterprise clients.

HeadStarter Dec. 2024 – Feb. 2025

AI Engineering Intern

- Built multiple AI/ML and full-stack web app projects on strict weekly deadlines in collaborative teams.
- Developed a full-stack Market Anomaly Detection web app that predicts the possibility of an upcoming market anomaly by training and evaluating multiple ML models using scikit-learn.
- Received weekly guidance and code reviews from industry mentors (Google, Two Sigma, Citadel, Tesla, and others).

Projects

Market Anomaly Detection | *Python, scikit-learn, Matplotlib, Seaborn* Jan. 2025

- Designed a machine learning pipeline to predict potential market anomalies with preprocessing, feature engineering, and model selection.
- Achieved ∼90% predictive accuracy across models including Logistic Regression, Random Forests, and K-Nearest Neighbors.
- Visualized insights on prior market anomalies and provided recommendations to anticipate incoming market dislocations.

Brain Tumor Classification Using Deep Learning | *TensorFlow, Keras, OpenCV* Dec. 2024

- Adapted the Xception CNN to classify brain MRI images into tumor vs. non-tumor categories with ∼90% accuracy.
- Streamlined preprocessing (normalization, augmentation) with OpenCV/TensorFlow to improve robustness and reduce overfitting.
- Evaluated performance with accuracy, precision, and recall; produced an optimized pipeline for medical image analysis.

HackRU: Memory Aid Web App | *HTML, CSS, JavaScript* Oct. 2024

- Participated in HackRU Hackathon (programming competition where individuals collaborate to develop a project).
- Developed a Chrome Extension web app using HTML, CSS, and JavaScript to assist individuals with short-term memory challenges by providing a simple and effective platform to record and recall important information.
- Collaborated with a team of 4 to design, implement, and deploy the website prototype within the 24-hour hackathon timeframe, integrating feedback from mentors and judges.

Technical Skills

Programming Languages/Frameworks: Python, Java, C, C++, JavaScript, HTML, CSS, SQL, React, Angular
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Keras, OpenAI, Gemini

Leadership & Involvement

- **Academic Tutor**: Tutored peers in Computer Science (Java), Mathematics (Geometry, Algebra, Calculus), and Science (AP Physics 1, Honors Chemistry, Honors Physics).
- **USACS**: Member of the Undergraduate Student Alliance of Computer Scientists; selected for the USACS mentorship program; participate in weekly CS workshops.
- **Quantitative Finance Club**: Member; engage in weekly workshops focused on algorithmic trading, quantitative investing, and financial data analysis; collaborate with peers to backtest trading models using historical market data.