

# 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

- Kappa Theta Pi:** Member of Technology Committee in KTP; Engage in weekly resume reviews and mock interviews; collaborate with peers in monthly fraternity hackathons; Organize and teach weekly technical workshops for pledges on Git, SQL, and full-stack development, strengthening their readiness for upcoming project work and hackathons.
- Academic Tutor:** Tutored peers in Computer Science (Java), Mathematics (Geometry, Algebra, Calculus), and Science (AP Physics 1, Honors Chemistry, Honors Physics), providing explanations and homework guidance to improve academic performance.
- USACS:** Member of the Undergraduate Student Alliance of Computer Scientists; selected for the USACS Mentorship Program and actively participate in weekly CS workshops and technical skill-building sessions.
- Quantitative Finance Club:** 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.