Yash Chennawar

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EDUCATION

Rutgers University-New Brunswick; Honors College — September 2023 - May 2027
Bachelor of Science: Computer Science and Mathematics — GPA: 3.7/4.0
Relevant Coursework: Data Structures, Linear Algebra, Multivariable Calculus, Discrete Structures I, Probability Theory (Discrete Structures II), Quantum Computing Devices, Introduction to Algorithms, AP Statistics

TECHNICAL EXPERIENCE

Undergraduate Research Assistant — June 2024 - Present
Rutgers University - CABM — *Piscataway, NJ*

- Engineering artificial neural networks inspired by biological brain mechanisms to advance pattern discrimination tasks under the guidance of Dr. Aaron Milstein.
- Investigating innovative solutions for the synaptic credit assignment problem.
- Developing with PyTorch in Python for building and fine-tuning neural network models, enhancing their performance through rigorous testing and validation.
- Conducting data analysis and experimental validation to optimize network performance with multithreading.
- Employing Git for version control for collaboration with a multidisciplinary team.

Software Engineer Intern — March 2024 - May 2024
GXF Inc. — *Hybrid*

- Developed innovative VR and MR applications for Apple Vision Pro and Meta Quest 2 & 3, aimed at enhancing medical education and practice, such as in surgeries.
- Collaborated with cross-functional teams to design and implement immersive simulations, reducing medical errors and improving healthcare outcomes.
- Utilized Unity and C# to create interactive environments, ensuring high performance and user engagement.
- Conducted thorough testing and debugging to ensure the reliability and effectiveness of VR/MR applications.
- Presented project progress and outcomes to stakeholders, receiving positive feedback and valuable insights.

Education Mentor — February 2023 - July 2023
Steam Works Studio — *Monroe Twp, NJ*

- Mentored students in robotics for the World Robotics Olympiad.
- Taught Python, Java, and LEGO Spike coding, focusing on engineering principles and gear mechanics.

PROJECTS

Binder: Personalized Book Recommendations — March 2024

- Developed a website for personalized book recommendations using ML algorithms.
- Implemented front end with HTML, CSS, JavaScript, and back end with Python (Flask, pandas, scikit-learn).
- Designed recommendation system with TF-IDF Vectorizer and K-Nearest Neighbors.

Stock Prediction Model — February 2024

- Created an ML model to predict S&P 500 index values using historical stock open and close time series data.
- Leveraged Python libraries (yfinance, scikit-learn, pandas) and trained a Random Forest Classifier.

EXTRACURRICULAR ACTIVITIES

Rutgers Undergraduate Student Alliance of Computer Scientists — September 2023 - Present

- Developing an ML-driven model using PyTorch to predict stock performance based on financial data.
- Implementing web scraping scripts to extract financial metrics (P/B, P/E, free cash flow) with SEC Edgar API.
- Building a user-friendly application with Python for stock analysis and prediction.
- Utilizing Git for version control and collaborating on project goals and deadlines.

SKILLS

Languages: Python, Java, C/C++, C#, SQL, JavaScript, HTML/CSS, R
Frameworks/Libraries: PyTorch, TensorFlow, RAG, pandas, NumPy, Matplotlib, Flask, scikit-learn, OpenAI API
Tools/Platforms: Git, VS Code, PyCharm, Unity, Jupyter Notebook, MS Office, IBM Qiskit
Certifications/Awards: Unity VR Development, Dean's List, Gold Presidential Volunteer Service Award