

Rishab Banthiya

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Education

University of Illinois at Urbana-Champaign

B.SC. IN COMPUTER SCIENCE AND ECONOMICS

GPA: 3.91

Relevant Coursework: Artificial Intelligence, Algorithms and Models of Computing, Data Structures, Computer Architecture, Probability and Statistics in CS, Software Design Studio

Champaign, IL

Aug. 2020 - Dec. 2023

Work Experience

Societe Generale

TECHNOLOGY ANALYST, INTERN

NYC, NY

Jun. 2023 - Aug. 2023

- Developed a Spring Boot application with optimized PSQL queries for efficient financial data management.
- Implemented a comprehensive Swagger documentation using OpenAPI3, defining multiple API endpoints to foster efficient collaboration across development teams.
- Orchestrated seamless deployment using Docker and Jenkins CI/CD, ensuring a smooth transition from development to production and enhancing the application's scalability.
- Developed JavaScript-based interactive data visualizations, significantly enhancing data comprehension and facilitating decision-making across the organization.

Banach Technologies

QUANTITATIVE ANALYST, INTERN

Singapore

Oct. 2022 - May. 2023

- Developed reinforcement learning models for automated cryptocurrency trading in both 1D and 2D spaces using deep Q-learning with experience replay. Implemented the models with TensorFlow, NumPy, Pandas, and gym-anytrading.
- Conducted thorough analysis of the models' effectiveness by backtesting them on historical cryptocurrency market data. This analysis involved evaluating the models' ability to make accurate predictions and generate profitable trading decisions based on past market conditions.

Pfizer

SOFTWARE ENGINEER, INTERN

Groton, CT

Jun. 2022 - Aug. 2023

- Collaborated with the PSSM Digital Design Team to develop models for predicting results in small molecule drug trials using C, contributing to improved drug discovery processes.
- Utilized REACT to create interactive elements that summarized and presented model data, enhancing data visualization and analysis for stakeholders and team members.
- Demonstrated strong problem-solving skills and attention to detail in designing and implementing the predictive models, resulting in accurate and reliable insights for drug trial outcomes.

UIUC

COURSE ASSISTANT, PROJECT MANAGER

Champaign, IL

Jun. 2022 - May. 2023

- Assisted CS 126 and CS 222 students as a Course Assistant, conducting thorough code reviews and providing valuable guidance during office hours for their programming projects.
- Successfully employed Agile methodologies, including Scrum and Kanban, to lead multiple teams on GitHub. Implemented regular stand-up meetings and iterative development, resulting in the efficient creation and presentation of over a dozen applications within a remarkable 3-month timeframe.
- Cultivated a collaborative team environment by encouraging open communication and conducting frequent retrospectives. This approach facilitated rapid development, continuous feedback incorporation, and ensured the delivery of high-quality, user-focused applications.

Projects

Naive Bayes

Jan 2022

- Trained a C++-based model to process a database of images to build a posterior bias
- Developed a supervised machine learning algorithm to classify images and self-validate results

TwitterVerse

Present

- A web app to search for tweets based on keywords and perform sentiment analysis on them using twitters dev API and the NLTK library.

Skills/Certifications

PROGRAMMING LANGUAGES: C++, JAVA, PYTHON, GIT/GITHUB, BASH, SQL, HTML/CSS, JAVASCRIPT, C, SQL, R

OTHER SKILLS: AGILE DEVELOPMENT, CLOUD COMPUTING, ALGORITHM DEVELOPMENT, HEROKU, TABLEAU, LOOKER

CERTIFICATIONS: DATA SCIENCE (UNIVERSITY OF MICHIGAN)