MOHIT AVADHANULA

Santa Cruz, CA

📞 703-223-4926 ✉ mohit.avadhanula@gmail.com 🔗 linkedin.com/in/mohitavadhanula ⭘ github.com/mohitavadhanula

Education

University of California Santa Cruz — Sep. 2021 – May 2025
Bachelor of Science in Computer Science and IT Management — *Santa Cruz, CA*
GPA: 3.6

Experience

Incrivelsoft — Aug 2023 – Nov 2023
Software Developer Intern — *Mountain House, CA*

- Developed a rule-based engine to check for legitimate tokens in supported games
- Utilized OpenAI API to leverage NLP for analyzing rules, enhancing decision-making processes related to token use, and optimizing system efficiency.
- Incorporated and wrote unit tests to speed up de-bugging and ensuring reliable code throughout each project.
- Deepened understanding of Agile and Scrum methodologies to effectively participate in and contribute to all work sessions; and enhanced communication skills across multiple platforms, including Slack, Microsoft Teams, and Outlook

Projects

AI Web Crawler for Medical Studies | *Python, OpenAI, Google Cloud Platform* — **May 2024**

- Designed and developed a web crawler specifically tailored to retrieve and summarize the most updated science on strength/nutrition from scholarly sources (PubMed); saving 2-3 hours of manual research
- Utilized the BeautifulSoup library in Python for parsing HTML and XML forms of the web pages, made use of its simple methods for navigating, searching, and modifying the parse tree.
- Employed OpenAI's ChatGPT to summarize the studies returned by the web crawler, comparing them to uncover contrasting results and discern which studies were more accurately and rigorously conducted, focusing on aspects like sample size and control of independent variables.
- Configured Google Cloud Scheduler for weeekly execution and used SendGrid Email API for timely delivery of the latest research summaries to the user.

Machine Learning Trading Bot | *Python, Lumibot, FinBERT (ProsusAI), PyTorch* — **March 2024**

- Implemented real-time sentiment evaluation using FinBERT to assess market sentiment, enhancing decision-making for trades on the SPY index.
- Designed and tested trading strategies that adjust positions based on risk levels and market conditions from 2020 to 2023; successfully simulating a $20,000 profit(paper trading)
- Integrated PyTorch for model training and inference, leveraging its advanced computational capabilities to enhance processing speed and model performance, especially on GPU-accelerated environments.

Technical Skills

Languages: Python, C, SQL, JavaScript, Java, HTML/CSS
Developer Tools: VS Code, Google Cloud Platform, React, Expo Go
Technologies/Frameworks: Linux, GitHub, PostgreSQL, MySQL

Leadership

UCSC Kahaani: Collegiate Bollywood Fusion Dance Team — **Spring 2022 – Spring 2024**
Logistics Captain

- ∗ Led my team of 23 dancers to numerous first place wins against UC and out-of-state universities in a national circuit: resulting in a ranking of 8th among all competing dance teams and $2000 in prize earnings.
- ∗ Managed logistics including planning practices, compiling team information, liaising with competition executive boards, and creating performance themes.
- ∗ Acted as a mediator for team disputes, ensuring a harmonious and productive team environment.

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture