Sidharth Pidaparty

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Education

Vellore Institute of Technology   **Sep. 2020 – May 2024**
Bachelor of Technology(B.Tech.) in Computer Science   *Vellore, Tamil Nadu*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Operating Systems
- Cloud Computing
- Computer Architecture

Experience

Inspirisys Solutions Limited   **May 2023 – June 2023**
Summer Intern   *Chennai, Tamil Nadu*

- Engineered ETL pipeline using Python and Pandas to automate data ingestion and processing of tweets from Twitter
- Developed sentiment analysis application using scikit-learn and NLTK to classify 15,000 tweets across 25 products into positive, negative, and neutral categories
- Designed and implemented a proof-of-concept Chatbot with GPT-3.5 turbo via LangChain to interact with the data and realise areas of concern

Projects

Avatar Tools   **github.com/avatar.tools**

- Analyzed hundreds of Teamfight Tactics games using the Riot Games API, identifying top-performing tacticians
- Developed and hosted a SQL database on AWS to store and retrieve match history data efficiently
- Engineered and optimized RESTful API endpoints in Python for real-time game data processing

Huffman Compression Algorithm   **github.com/compression-huffman**

- Implemented a lossless Huffman Compression algorithm in C, using low-level system calls for efficient I/O operations
- Designed and utilized nodes, queues, and stacks, performing bitwise operations for data encoding and compression

Price Predictor of Cryptocurrencies

- Developed an LSTM-based predictive model to forecast currency prices over specific time intervals
- Incorporated mining difficulty, daily high, daily low, and opening price as features, achieving 76% accuracy

Technical Skills

Languages: Python, Java, C/C++, SQL, HTML/CSS, JavaScript, R, 8086 Assembly
Developer Tools: Node.js, Express, React, MongoDB, NumPy, Pandas, Matplotlib, scikit-learn, LaTeX, AWS, Git, Flask

Leadership / Extracurricular

Students for the Exploration and Development of Space (SEDS)   **September 2022 – December 2023**
Director of Editorial and Documentation

- Led content strategy and oversight for all social media platforms and the official website, ensuring accuracy, clarity, and engagement
- Reviewed, edited, and provided feedback on editorial submissions to maintain high-quality standards
- Managed the timely release of the SEDS-VIT newsletter and maintained an active blog presence

Certifications

Security, Compliance, and Identity Fundamentals   **July 2023**
Microsoft

- Credential ID: 2BA0BDE216F8883C