

Shravan Madhu

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EDUCATION

McMaster University

Bachelor of Applied Science, Honours in Computer Science

Hamilton, Ontario

Aug. 2022 – May 2027

Fahaheel Al Watanieh Indian Private School, Kuwait

PCMC

Ahmadi, Kuwait

April 2008 – May 2022

EXPERIENCE

Saasvaap Techies Private Limited

AI/ML Intern

Cochin, India

July 2024 – August 2024

- Worked on an AI/ML project involving Wikipedia Search and Q & A chatbot.
- Developed a semantic search engine using Python, BeautifulSoup, FAISS, and Langchain.
- Received excellent feedback for performance and contribution during the internship.

PROJECTS

Loan Eligibility Prediction App | *Python, Streamlit*

Dec 2024

- Built a Streamlit-based ML web app to predict loan approval using a Random Forest classifier trained on real-world financial data.
- Implemented data preprocessing, SMOTE for class balancing, feature engineering, and threshold tuning for improved prediction accuracy.

Voice-Controlled Rover / Tour Guide App | *React Native, Expo, ESP32, Python*

Jan 2025 – Present

- Designing a mobile app using React Native and Expo to control a physical rover via Bluetooth Low Energy (BLE) using an ESP32 microcontroller.
- Robot hardware is still under development, with software components progressing well and tested successfully in a simulation environment.

Stock Market Analysis | *Python*

Nov 2023

- Implemented a comprehensive analysis of historical stock market data using Python libraries such as Pandas, NumPy, and Matplotlib.
- Acquired and preprocessed financial data via API integration, including cleaning and feature engineering for improved data quality.
- Visualized stock trends and computed technical indicators to assess market performance, facilitating data-driven investment insights.

Wikipedia Search Bot | *Python*

Aug 2024

- Developed a chatbot for semantic searches on Wikipedia, using Python and BeautifulSoup for web scraping to extract relevant content from articles.
- Employed Langchain for managing conversational context and retrieving information, enhancing user interaction through natural language processing.
- Utilized FAISS for efficient vector storage and retrieval, enabling quick access to relevant data and improving response accuracy.

TECHNICAL SKILLS

Languages: Python, C, SQL, HTML/CSS, JAVA

Developer Tools: Git, Visual Studio, Pycharm, Microsoft Azure

Libraries: pandas, numpy, matplotlib, seaborn, langchain, pinecone, chromaDB, imbalanced-learn