

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

Airbnb EDA | *Python, Pandas, Matplotlib, Seaborn, Scikit-learn*

May 2024

- Performed exploratory data analysis on Airbnb listings to uncover trends in pricing, availability, and location-based performance.
- Created visualizations and tested regression models to understand key price drivers.
- Planning to integrate results into an interactive Power BI dashboard.

Poker Game Analyzer | *Python, Flask, JavaScript, Monte Carlo Simulation*

May 2025

- Built a backend engine to evaluate poker hands using Monte Carlo simulations for win probability estimation.
- Implemented Analysis Mode for user-defined hands and board states; Game Mode (vs AI) is under active development.
- Includes real-time result updates and Flask API for frontend integration.

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