Shreya Savant

shreya.savant@mail.concordia.ca | 1-438-680-3781 | linkedIn/shreyasavant | github/shreyasavant

EDUCATION

Master of Applied Science - Quality Systems Engineering   Montreal, QC | Dec 2024
Concordia University
Research Assistant (RA): Artificial Intelligence (AI), Natural Language Processing (NLP) in the CIISE Department

Bachelor of Technology - Computer Science and Engineering   Kolhapur, MH | May 2022
D. Y. Patil College of Engineering and Technology
Coursework: Data Structures and Algorithms; Operating Systems; Advanced Networking; Big Data Analytics

WORK EXPERIENCE

7DISH | Machine Learning Intern   Montreal, QC | Jun 2023 - Jan 2024
- Designed and developed a conversational AI interface for seamless product catalogue access using **OpenAI's GPT-3.5** and **LangChain**, resulting in a 30% increase in user engagement, leveraging capabilities of Language Model Models (LLMs)
- Developed and optimized machine learning pipelines using **PyTorch**, **MLflow**, and **Hydra** for efficient training and deployment
- Collaborated with cross-functional teams using **Agile** methodologies to recognize and address data quality challenges in a large corpus, improving sentence embedding quality and increasing recommendation accuracy by 15%.
- Developed **RESTful API** endpoints to integrate seamlessly with existing systems, enhancing user experience through efficient database interactions; **Technologies**: Azure, Databricks, Docker, Git, Python, PySpark

VISIVE INC. | Jr. Data Science Engineer   Pune, MH | Aug 2022 - Dec 2022
- Developed an Image Search system improving precision and user experience using Python and ML framework TensorFlow
- Deployed machine learning models for face recognition, image and video processing, Elastic search, object detection, and Optical Character Recognition (OCR) on **Google Cloud**, achieving a 20% improvement in accuracy.
- Created ETL pipelines with SQL and PySpark for data management and integration.
- Developed desktop and web applications using Tkinter, Streamlit, and Plotly Dash, deploying with Docker.

PROFCESS | Software Engineer Intern   Bhopal, MP | Jun 2021 - Jul 2021
- Optimized the front-end web app using Bootstrap, HTML, and CSS, resulting in a 20% increase in user engagement.
- Developed a recommendation engine for a human resources platform trained on designation and skills-based trends, improving user satisfaction.

PROJECTS

MEMORY MODULE TO IMPROVE LLM AGENTS   Python, Langchain, LLMs, Flask, Git
Developed an innovative memory module to enhance the performance of LLM agents to enable them to retain and utilize context across interactions, significantly improving the response accuracy and **user experience**. Led extensive research, development, **Prompt Engineering**, and testing to ensure optimal functionality and integration with existing frameworks.

AI BASED REFLECTIONS EVALUATOR   Python, HuggingFace, Ollama
Engaged as a member of a selected cohort tackling an AI in Education Innovation Challenge with industry collaborator Pragmatics Studio. Led the development and design of an **NLP evaluation system** for student reflections, aiming to provide assessment methods and personalized feedback for academic advancement.

STUDENT ATTENTIVENESS MONITORING   JavaScript, Python, OpenCV
Developed a real-time classroom **student attentiveness monitoring** system using a Convolutional Neural Network (CNNs) and OpenCV and TensorFlow leveraging Tesla's 'Driver Drowsiness Detection' data. Deployed on Jetson Nano.

CIRCULAR ECONOMY - IMPROVING FOOD SECURITY AND CROP YIELD   Matplotlib, Seaborn, Python
Developed **image processing,** and **data visualization** pipelines for the Remote sensing datasets from Google Earth Engine

URA - ML-BASED WEBAPP TO PREDICT EMPLOYMENT TRENDS   HTML, CSS, BootStrap, Python, Django
Led a team of 4 peers in the development of a web application that predicts job trends based on skills leveraging a Gaussian Naive Bayes-based prediction system to forecast company requirements, providing insights for job seekers and employers

CAMBIARE - A WEB COMMUNITY ENGAGEMENT PLATFORM   HTML, CSS, SQL, Figma, GooogleSites
Designed and built a **community engagement platform** that connected graduate students with children in remote areas, addressing the challenge of **quality education in rural areas**. Successfully executed the solution after conducting field research in Kolhapur for the **Barclays Tech Innovation Challenge**

SKILLS

Languages: Python, Java, C++, C#, Bash, C, SQL **Web Development:** React, JavaScript, TypeScript, HTML/CSS
Technology: Git, AWS, GCP, Azure, Docker, Databricks, LaTeX, Tableau, Power BI, MongoDB, DynamoDB, Neo4j, Blender, Figma