

Shreya Savant

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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 (THESIS)

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.

SPOKENWEB - RESEARCH ASSISTANT

RUBY ON RAILS, HTML, CSS, JAVASCRIPT, BOOTSTRAP

Contributed to an **SSHRC-CRSH Canada** project digitizing literary sound recordings, and collaborating with universities and researchers. Led data ingestion into Apache Solr with Ruby, improving search speed and accuracy by 20%. Managed and optimized Linux servers for Ruby on Rails and Solr, resolved critical bugs and enhanced the user interface improving efficiency

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

SKILLS

Languages: Python, Java, C++, C#, Bash, C, SQL **Web Development:** React, JavaScript, TypeScript, HTML/CSS, Ruby On Rails

Technology/Tools: Git, AWS, GCP, Azure, Docker, Databricks, \LaTeX , Tableau, Power BI, MongoDB, DynamoDB, Neo4j, Blender, Figma