Moulik Zinzala

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Profile

Aspiring Data Scientist with a solid foundation in Python, SQL, and data analysis. Skilled in using libraries and frameworks such as Pandas, NumPy, Scikit-learn, TensorFlow, LangChain, and LangGraph to extract insights, build predictive models, and develop intelligent agents. Passionate about applying data-driven solutions to real-world problems and committed to continuously learning and adopting emerging technologies and techniques.

PROJECTS

Here are some of my projects There are many of them Please give a visit to my GitHub for my Projects.

Full Stack APP | RAG Builder | GitHub Link|

· Built a full-stack Retrieval-Augmented Generation (RAG) platform enabling users to chat with uploaded documents or scraped websites.

· Integrated FastAPI backend with document loaders, embedding generation (FAISS + HuggingFace), and Groq LLM for intelligent Q&A.

· Engineered frontend using HTML, CSS, and jQuery with dynamic project tracking, session-based routing, and chat UI.

· Enabled both document upload and web scraping workflows, storing each project as a vectorstore tied to a unique session.

· Ensured modularity and extensibility by structuring the app with routers, services, and vectorstore isolation for each user session.

MACHINE LEARNING | NETWORK SECURITY DETECTION | **GITHUB LINK**

- **Developed a Phishing Website Detection ML Project:** Built an end-to-end machine learning pipeline for detecting phishing websites, incorporating efficient data ingestion, transformation, validation, and modeling.
- **Pipeline Automation:** Automated artifact creation (e.g., preprocessor.pkl and model.pkl) for seamless predictions, leveraging YAML configuration for flexible and structured pipeline decoding.
- **Database Integration:** Utilized MongoDB for efficient storage, retrieval, and preprocessing of structured data, ensuring streamlined data handling.
- **Model Training and Evaluation:** Trained and optimized multiple models using GridSearchCV, focusing on metrics like precision and recall to achieve optimal performance.
- **Utilities and Validation:** Designed custom utilities for exception handling (exception.py) and dynamic logging (logging.py) while validating data quality and consistency for accurate model predictions.

COMPUTER VISION| VIRTUAL BOARDCASTER | GITHUB LINK

- DEVELOPED A PYTHON-BASED VIRTUAL WEBCAM TOOL USING OPENCV AND PYVIRTUALCAM TO BROADCAST VIDEOS OR IMAGES AS LIVE WEBCAM INPUT.

  ENABLED USERS TO SEAMLESSLY SWITCH BETWEEN PRERECORDED VIDEOS AND STATIC IMAGES WITH COMMAND-LINE CONTROL AND LOOPING SUPPORT.

  DESIGNED FOR VIRTUAL MEETINGS, CONTENT CREATION, AND ONLINE PRESENTATIONS ENHANCING USER INTERACTION AND CREATIVITY..

Education

2023-2026

Bachelor Of Computer Science | UKA Tarsadia University | BV Patel Institute of Computer Science

Active Member of University's Data Science Society

· Relevant coursework: Machine Learning, Data Analysis, and Statistical Modeling

SGPA : 8.65

Skills and Interests

· Python	
· Generative AI	· Power BI
· Agentic AI	· Machine Learning
· MySQL	· Explantory Data Analysis
· Deep Learning	· Statistical Anlaysis
· Predictive modeling	· Communication
· Excel	· Critical thinking and problem-solving

Activities and Interests

Playing Chess,Football | Reading Books | Watching Documentary | Hiking