

SUMMARY

A skilled GenAI Engineer adept in leveraging Azure services to develop innovative solutions for NLP-related tasks and data science challenges. with strong foundation in software development and passion for advancing technologies.

CONTACT

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GitHub:

https://github.com/LalitSheoranrepo

SKILL HIGHLIGHTS

Programming LanguagePython, JavaScript, HTML

> Tools and Software

OpenAl GPT Models, Langchain, ChromaDB, PostgreSQL, MongoDB, PyTorch, Pandas, NumPy, Bootstrap

Proficient In

- GenAl
- Prompt Engineering
- Vector Database
- Machine Learning
- NLP
- Microsoft Azure
- CI/CD Pipeline
- PySpark

Lalit Kumar

EDUCATION

Master of Science, Information Technology Aug 2020 – 2022 Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT) Aug 2020 – May 2022 CGPA: 7.87/ 10

EXPERIENCE

Fractal Analytics (Jun22 - Current)

Automated Proforma Generation

- Automated Proforma Generation for mortgage-based loans involves processing rental and operating statements of buildings.
- Utilizes OpenCV for image preprocessing, including Otsu thresholding, skew correction, and denoising, and leverages Pandas and NumPy for processing Excel and CSV files.
- Employs Azure Document Intelligence and Azure GPT Vision models for content extraction from documents.
- Organizes extracted content using a Pytorch implementation of a Transformer-based model, specifically the table-transformer, to differentiate between tables and paragraphs.
- Recategorizes extracted content into a structured JSON object that outlines loan amount eligibility, utilizing Prompt Engineering with Azure OpenAI.

BrainTrain:

- Implemented smooth content retrieval from a localized internal database, utilizing LangChain, GPT-4, and ChromaDB.
- Developed a file search service on Azure Blob Storage by indexing files with Lucene library, with indexes saved in Azure Cognitive Services for efficient file searching.
- Automated the generation of PPT skeleton and content from a localized database using a **RAG**-based approach supported by ChatGPT, restructured the PPT to fit specified templates via the python-pptx library.
- Enabled real-time web search functionality using Bing Search and Perplexity LLM.

Microsoft Responsible AI Framework Accelerator:

- Generated a comprehensive test dataset utilizing Large Language Models (LLM) to simulate real-world news scenarios.
- Developed a news classification pipeline employing **Transformers, XGBoost, SVM**, and **Decision Trees**.
- Implemented a multimodal functionality integrating traditional algorithms and LLM,
- Evaluated outputs using the Microsoft Responsible AI framework.

ACADEMIC PROJECTS

Publication:

Summary: Published a research paper titled "Deep Learning Based Automated Localization of Anterior Commissure and Posterior Commissure Landmarks in 3D Space from 2D Three-Plane MRI Localizer Slices of the Brain," accepted at the International Conference on Machine Learning and Data Engineering (ICMLDE) 2022.

Guide: Dr. Bakul Gohel

Link: PDF

Sentiment Analysis of YouTube Videos and Tweets:

Summary: Sentiment analysis of YouTube videos as well as Live speech was accomplished. The aim was to predict emotion out of a spectrum of 5 emotions. In this project we implemented Ensemble method of Vector Space Model (VSM)(Implemented from a research paper) and LSTM. Also, we designed Web-App to fulfil the aim of building an end-to-end application.

Guide: Prof. Ahlad Kumar

Link: GitHub Link

CERTIFICATIONS

- > AZ-204 (Azure Developer Associate)
- > Associate Pyspark Developer (Fractal Certified)
- > AZ 900(Microsoft Azure Fundamentals)
- DP 900 (Microsoft Azure Data Fundamentals)
- > Databricks Accredited Lakehouse Platform Fundamentals