Heerak Agrawal

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RESEARCH INTERESTS

LangChain, Llama index, Machine learning, Deep learning, Generative Artificial intelligence(GenAl).

EDUCATION

B.Tech, information technology

Expected May 2026

Institute of Engineering and Technology, DAVV, Indore

CGPA: 8.00

Schooling

XII(CBSE), Kendriya Vidyala No.1, Indore

91.6% (2022)

X(CBSE), Kendirya Vidyalaya No.1, Indore

90.8% (2020)

PROJECTS

EduExpert query system | individual project

May 2024

Powered by Google PaLM and LangChain, EduExpert's query system provides accurate, real-time responses to educational queries. By combining Google PaLM's advanced language model with LangChain's robust NLP framework, the system efficiently comprehends and answers complex questions. Built using streamlit app, provides option to create your own knowledgebase using FAISS library which utilizes vector embeddings.

LLM based legal document analysis webapp: | Hackathon

March 2024

Team project: A large language model based web-application to automate legal document analysis. Uses Hugging face
pipeline fine tuned on legal document dataset to summarize the key points, and overall strengths and weakness analysis
of the document from the perspectives of sender and receiver, uses python modules to extract data from pdf, (image and
textual).

AgriAID | individual project

December 2023

 A CNN based deep learning algorithm trained on multiple kaggle datasets, helps farmers in determining their crop's health. Takes the leaf images, identifies disease type, is public and can be trained on more datasets in order to increase performance and identify more types of diseases.

ML / Al based Sentiment analysis of social media textual content: | Hackathon

September 2023

Team project: Python backed, uses an ensemble model(BERT, SVM, BiLSTM) trained on multiple languages. Uses API, selenium based python scriptsto perform scraping and automation to provide real time data acquisition and preprocesses the texts using NLP, assigns them sentiments(positive, negative, neutral) represents them through statistical graphs and pie charts.

SKILLS

Technology |

- AIML (Deep learning, Langchain and GenAl)
- Time series(Python language)
- · Web scraping and API developement(selenium, tweepy, requests, beautifulsoup, scrapy, fastAPI)

Languages |

• Python, C, C++, JAVA

CERTIFICATIONS

Cyber Security | Deen Dayal Upadhyay Kaushal Kendra (DDU-KK), DAVV, Indore Reinforcement Learning based Trading | IBM Developer Skills Network

April 2023

December 2023