

RAJAT KUMAWAT

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EDUCATION

Indian Institute of Information Technology

B.Tech Computer Science and Engineering

Bhopal

December 2021 - Present

Relevant Coursework

- Object Oriented Programming
- Discrete Structures
- Advanced Engineering Maths
- Object Oriented Programming

SKILLS

| | |
|------------------------------|---|
| Programming Languages: | C, C++, Python |
| Platforms: | GitHub (with Github Actions), GitLab, Git |
| Database Management Systems: | MySQL, Mongo-DB |
| Web Development: | HTML, CSS (Bootstrap and Tailwind), JavaScript, Reactjs |
| Libraries / Frameworks: | Flask , Django, Pytorch, Tensorflow, Langchain |
| Soft Skills: | Leadership, Communication Skills, Organised |
| Languages: | English, Hindi |

PROJECTS

Chat with Your Files

May 2023

HuggingFace link for project [↗](#)

- Developed a chat interface with PDF documents using Python and the LangChain library integrated with OpenAI API.
- Utilized LangChain's document loaders, text splitter, embeddings, vector stores, and conversational retrieval chain to enable efficient retrieval and analysis of PDF content. Incorporated OpenAI as a language model for generating responses to user queries based on the chat history.

(Skills Used: Python, LangChain, Streamlit)

Hand Sign Recognition

February 2024

Github link for project [↗](#)

- Designed and built a real-time hand gesture recognition system using OpenCV, Mediapipe, and TensorFlow.
- Employed OpenCV for efficient image pre-processing and Mediapipe for accurate hand landmark detection.
- Trained a model using TensorFlow to identify static hand gestures with high accuracy, enabling real-time interaction and control.

(Skills Used: Python, OpenCV, Mediapipe, TensorFlow)

Ayurmitram Chatbot

December 2023

Github link for project [↗](#)

- Developed a ML-based chatbot for prakriti classification on basis of options selected by users.
- Developed a Natural Language Processing (NLP) model for intent classification.
- Built a multi-class classification model with a neural network architecture using Keras for classification of different kinds of prakriti.
- Trained the model to classify user queries into 6 prakriti categories.

(Skills Used: Python, Pandas, Scikit-learn, TensorFlow)

POSITION OF RESPONSIBILITY

GNU/Linux Users Club

Core Team Member

IIIT Bhopal

August 2022 - Present

Kratigence

Core Team Member

IIIT Bhopal

August 2022 - Present

CERTIFICATES

Advanced Learning Algorithms by Deeplearning.ai (Certificate Link [↗](#))

November 2022 - December 2022

Supervised Machine Learning by Deeplearning.ai (Certificate Link [↗](#))

August 2022 - October 2022

ACHIEVEMENTS

- **Winner at SIH'23**, Contributed in ML-model part of Ayurmitram, a unified web application integrating an ML-driven chatbot for individual prakriti assessment.