CHIRAG SANADHYA

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PROFILE SUMMARY

Data science enthusiast with a strong foundation in machine learning, NLP, and AI. Skilled in developing and deploying solutions using Python, TensorFlow, and cloud technologies. Developed and deployed multiple projects, including ModelMation, an automated ML app, and a PDF chatbot with chat history. Active in the data science community, with Kaggle projects garnering over 60 copies and edits. Seeking opportunities to further advance in data science and AI.

EDUCATION

Bachelors of Technology (B.Tech), Maharaja Agrasen Institute of Technology November, 2022 - June, 2026
- Majors in Computer Science And Engineering, Specialization in Artificial Intelligence and Data Science.
- Relevant Coursework: Machine Learning, Data Structures Algorithms, Database Systems, LLMs, Generative AI
- Community Team Member at Google Developer Student Club

SKILLS

- **Data Analysis:** Python, NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook, Google Colab, SQL, Data Visualization, Statistical Analysis
- **Machine Learning:** Scikit-learn, TensorFlow, Keras, ANN, CNN, RNN, LSTM, GRU, Transformers, Encoder-Decoder, OpenCV, Image Processing, Object Detection, Image Classification, Transfer Learning, YOLO, NLTK, SpaCy, Text Preprocessing, Named Entity Recognition, Hugging Face Transformers, BERT, RAG, Vector Databases, OpenAI, Ollama, Text Generation, Fine-tuning, Langchain, Groq
- **Cloud Deployment:** AWS, Lambda, Docker, Git, GitHub, CI/CD, Flask, Streamlit

PROJECTS

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- **ModelMation** | Python, Streamlit, Scikit-learn, Pandas, Machine Learning GitHub
  Developed ModelMation, an automated ML app for classification and regression. It enables users to upload datasets, preprocess data, choose algorithms, and generate predictions, all in a streamlined interface.
- **Plant Disease Classification using CNN** | Python, TensorFlow, Keras, OpenCV GitHub
  Built a Convolutional Neural Network (CNN) to classify plant diseases based on images. Used the New Plant Diseases Dataset (Augmented) from Kaggle.
- **Chatbot with Message History** | LangChain, Groq, Streamlit GitHub
  Developed a chatbot for PDFs that includes chat history awareness. Leveraged LangChain for document retrieval and Groq for large language model (LLM) integration, deployed using Streamlit for an interactive user interface.

EXTRA-CURRICULAR ACTIVITIES

Authored and maintained two technical blogs: - "Speeding up Python with NumPy" - "Mastering SQL Essentials"

Actively participate in Kaggle competitions, contributing to the data science community by posting notebooks and solutions. Awarded two bronze medals for outstanding performance in Kaggle competitions.