LAKSHIT UPRETI

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EDUCATION

Indian Institute of Information Technology Nagpur, *B. Tech. in Computer Science and Engineering* |
Nagpur, Maharashtra, **INDIA**
2021 - 2025

EXPERIENCE

AccunAI, *Prompt Engineer* | Remote(India)   07/2024 - Present
- Collaboratively **trained LLM models** to generate nicely formatted, accurate and efficient C++ and Python codes.
- Worked with the team to **fine-tune** and evaluate model outputs, achieving a **20%** improvement in response quality.

NULL Class, *Data Science Intern* | Remote (India)   06/2024 - 07/2024
- Created a full French-to-English and Spanish-to-English **translation application** with **98%** accuracy for the course.
- Leveraged **OCR** to extract text from images and integrated a translation API for converting French text to English.

SKILLS

Languages	C++, Python, SQL
Technical	Data Science, Machine Learning, Deep Learning, Exploratory Data Analysis, Statistics, Modeling, Computer Vision, TensorFlow, Large Language Model (LLM), Retrieval Augmented Generation (RAG), GenerativeAI, Natural Language Processing (NLP), HuggingFace.
Software	PowerBI, MySQL

PROJECTS

Assistant: Gemini LLM Web Application | *Link*
- Developed 4 key components: **Assistant** for **real-time** responses, **Image QA** for image-based QA, **AskMe** for question-answering and **MCQ Assistant** that generate PDF with MCQs and their answers based on 4 user inputs.
- Deployed the user-friendly web-app on **HuggingFace Spaces** using Streamlit on a 16GB RAM CPU for easy access.
- Implemented a **RAG** application, **PDFAssist** for document retrieval using **Pinecone Vector Database** with 768 dimensional embeddings.

Pokémon Doppelgänger : Predicting your Pokémon lookalike, | *Link*
- Built an app using on a 16GB RAM CPU, enabling users to discover their Pokémon look-alike.
- Implemented **Machine Learning and Deep Learning Algorithms** to **extract facial embeddings** of humans and Pokémon.
- Used **cosine similarity algorithm** to determine which Pokémon looks similar to the user with **89.3%** accuracy.

DeepFake Detection: Deep Fakes recognition web-app | *Link*
- Developed an **Computer Vision** web-application for identifying deep fake images, videos and audios.
- Applied **CNN, RNN and anomaly detection** techniques, achieving **95%** accuracy in detecting deepfakes.
- Enhanced model performance by **30%** through **transfer learning** and deployed it on **Hugging Face**.

Duplicate Question: Remove duplicate questions on forums like Quora | *Link*
- Constructed an **NLP** web-app to identify duplicate questions on a QA platform like Quora.
- Applied **text preprocessing** like **tokenization, lowercasing, stop words removal**, etc., to get accuracy of **80%** .
- Utilized **Bag of Words** and **TF-IDF** to represent text data. Engineered Features to enhance accuracy to **81.77%**.

Certificates

Introduction to Statistics – | *Coursera(Stanford University)*	09/2023
SQL for Data Science with Python – | *Coursera(IBM)*	10/2023
Machine Learning with Python – | *Coursera(IBM)*	11/2023
Power BI Training For Data Science – | *Udemy*	02/2024

Achievements

- Rated **3* at CodeChef** with a maximum rating of **1613**.
- Achieved a peak rating of **1713 on LeetCode** and solved over **500** problems.
- Qualified **JEE Advanced 2021** attaining **18k rank**.