

Gulshan Kumar

Machine learning engineer

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EDUCATION

Bachelor of Engineering in Computer Science

University of Jammu

12/2020 – 07/2024 | Jammu, India

PROJECTS

LLM Voicebot

Developed a LLM Voicebot utilizing Gemini, AssemblyAI, and TTS technologies to process and transcribe user voice, generate intelligent responses with LLMs, and deliver synthesized speech. Implemented the backend using Flask and developed the frontend with HTML, CSS, and JavaScript.

AI Powered Calorie Burn Prediction and Management Tool

Developed a Flask web application with XGBoost for predicting exercise calorie burn from a Kaggle dataset. Integrated a Bootstrap-based UI, containerized the application using Docker, and implemented CI/CD pipelines with CircleCI.

Plant Disease Prediction using Convolution Neural Networks

Designed a CNN model to classify plant diseases from leaf images and built a web app for instant diagnosis via image uploads.

RAG based chatbot for Talenflow startup

Developed an AI driven chatbot leveraging Retrieval Augmented Generation (RAG) and the Gemini API to handle customer inquiries efficiently. Enhanced user experience with intuitive, automated responses and real time assistance.

Video Transcription and Sentiment Analysis Using AssemblyAI API

Built a web application with AssemblyAI API for video transcription, timestamping, and sentiment analysis. Used HTML, CSS, and JavaScript for the frontend and Flask for the backend.

CERTIFICATIONS

Machine learning specialization
Deep learning specialization
Langchain for LLM Application development
Langchain - Chat with your data (deeplearning.ai)
Prompt engineering for developers
SQL for Data Analysis - Internshala

INTERNSHIPS

AI ML Intern

Talenflow

06/2024 – present

- Developing a chatbot using NLP and RAG techniques for responsive query resolution on the company's website.
- Utilized Google Gemini API, Langchain, and Pinecone DB.

Data Science Intern

Zidio Development

02/2024 – 03/2024

- Worked on data science projects focusing on regression and classification problems.
- Applied feature engineering and data cleaning techniques to prepare data for model development.

SKILLS

Data science, Machine learning and Deep learning

Python, Supervised and unsupervised algorithms, Neural Networks, ANN, CNN, RNN, LSTM, Feature engineering, Feature selection, Natural Language Processing etc.

Python Packages and Frameworks

Scikit-learn, Tensorflow, Keras, Numpy, Pandas, Matplotlib, NLTK, OpenCV, Langchain, Streamlit, etc.

Languages and Databases

HTML, CSS, Javascript, JQuery, FastAPI, PostgreSQL

Generative AI

GPT, RAG, Gemini, Pinecone, Hugging Face, Langchain

MLOPS

GCP, Git, Docker, CI CD Circleci

ORGANIZATIONS

Chegg India

Subject Matter Expert

05/2023 – present

Part time Subject Matter Expert at Chegg, solved over 320 probability and statistics questions.

GeeksforGeeks

Technical writer

01/2023 – 05/2023

Authored 23 clear technical articles for GFG.