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

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.

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.

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.

Onsite Health Diagnosis
present
Developed a multi model system using machine learning and transfer learning techniques like Xception and VGG16. Implemented the backend with FastAPI and created the frontend using HTML, CSS, and JavaScript.

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.