Harsh Gupta

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Github | Linkedin

Summary

Aspiring **AI Engineer** with a strong foundation in machine learning, deep learning, and Natural Language Processing (NLP). Hands-on experience in building AI-driven applications, including chatbots and computer vision projects. A quick learner with a passion for problem-solving, eager to contribute to cutting-edge AI solutions.

Projects

AI Chatbot with Transformers — Python, Hugging Face, Flask

- Developed an intelligent chatbot using Transformer models (e.g., GPT-2, BERT), fine-tuned on custom datasets.
- Built a prototype for real-time use, improving contextual accuracy by 20% compared to baseline models.
- Engineered a data processing and model serving pipeline.

Real-Time Face Recognition System — Python, TensorFlow, OpenCV

- Developed a computer vision system that automates attendance marking using facial recognition.
- Utilized a CNN architecture and achieved a 95% recognition accuracy on a custom dataset during real-time testing.
- Engineered a data pipeline to preprocess and augment image datasets for model training.

Fake News Detection (NLP) — Python, TensorFlow, Scikit-learn

- Implemented a natural language processing pipeline to classify news articles as "fake" or "real" using a deep learning model.
- Developed and trained an LSTM-based model to analyze text sentiment and linguistic patterns.
- Achieved over 90% classification accuracy on a well-known public dataset.

Technical Skills

Languages: Python, C++, Java, SQL
AI/ML: Machine Learning, Deep Learning, NLP, Transformers, Computer Vision
Frameworks: PyTorch, TensorFlow, Scikit-learn, Hugging Face
Tools: Git, Flask, Jupyter Notebook, VS Code, Android Studio
Databases: MySQL, Firebase
Core CS: Data Structures, Algorithms, DBMS, OS, Computer Networks

Certifications & Awards

- Deep Learning and Reinforcement Learning – Coursera
- The Bits and Bytes of Computer Networking Google - Coursera
- The Complete React Js and Redux Course - Build Modern Web Apps - INFOSYS Springboard
- Participated in CU Hackathon and Hackshield events
- Solved 200+ Data Structures & Algorithms problems on platforms like LeetCode , HackerRank.

Education

Bachelor of Technology (B.Tech), Computer Science & Engineering
Chandigarh University, Punjab   2021 – 2025
CGPA: 7.51/10 (throughout)