

Rahul Verma

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Professional Summary

Machine Learning Engineer with strong experience in building predictive models, deep learning architectures, NLP pipelines, and LLM-powered applications. Skilled in Python, PyTorch, TensorFlow, and HuggingFace. Passionate about developing scalable AI systems and deploying ML services in production.

Education

Master of Science in Artificial Intelligence

Indian Institute of Science (IISc), Bengaluru

2020 – 2022

Bachelor of Technology in Computer Science Engineering

NIT Calicut

2016 – 2020

Skills

Machine Learning: Regression, Classification, XGBoost, Random Forest, SVM

Deep Learning: CNN, RNN, LSTM, Transformers

NLP: Text Classification, NER, Summarization, Question Answering

LLM: Fine-Tuning, Embeddings, Prompt Engineering, RAG Pipelines

Programming: Python, SQL

Tools: TensorFlow, PyTorch, Scikit-learn, HuggingFace, LangChain, OpenCV

Deployment: FastAPI, Streamlit, Docker, Git

Projects

1. LLM Knowledge Assistant (RAG System)

Tech: Python, LangChain, HuggingFace Embeddings, FAISS

- Built a Retrieval-Augmented Generation assistant for company documents.
- Achieved >85% accurate factual responses.

2. Driver Drowsiness Detection System

Tech: TensorFlow, OpenCV

- Built CNN model to detect eye closure and yawns from live camera feed.
- Improved detection accuracy by 18% with augmentation & transfer learning.

3. Twitter Sentiment Analyzer (NLP)

Tech: Transformers, BERT

- Classified tweets into positive/negative/neutral categories.
 - Achieved 92% accuracy using BERT fine-tuning.
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Experience

Machine Learning Engineer – AIForge Labs (Bengaluru)

Aug 2022 – Present

- Designed ML models for anomaly detection and forecasting.
 - Developed NLP pipelines using BERT/DistilBERT.
 - Deployed models using FastAPI + Docker.
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Certifications

- Deep Learning Specialization – Coursera
 - NLP with Transformers – HuggingFace
 - TensorFlow Developer Certificate
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Languages

- English
 - Hindi
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Achievements

- Built 20+ AI/ML projects
- Kaggle Silver Medal (NLP Competition)