

## 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.

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## 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**

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## 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

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## 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)