

# Ashish Kumar

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**Summary** — AI Engineer skilled in Deep Learning, LLMs, and multi-agent automation. Experienced with LangChain, LangGraph, FastAPI, and Groq for building production-ready AI systems. Strong foundation in NLP and applied machine learning with experience in MLOps using AWS, Jenkins, and Docker. Proven Team Leader with hackathon wins and research on fine-tuned LLMs.

## Skills

AI/ML Python, TensorFlow, PyTorch, Scikit-learn, Deep Learning, NLP

LLM / RAG LangChain, LangGraph, Groq, Composio, FAISS, Chroma, Pinecone

Backend FastAPI, Flask, REST APIs, Pydantic

MLOps Docker, Jenkins, SonarQube, AWS ECS/Fargate

Frontend React.js, Streamlit

Data PostgreSQL, Pandas, OpenAI API

Tools Git, GitHub, VS Code, WSL

## Experience

### AI Engineer Intern — Spiritual Data, Allentown (Remote)

Jun 2025 – Sep 2025

- Implemented model training, validation, and testing pipelines for the company's AI Platform.
- Designed data preparation workflows and evaluation datasets for model benchmarking.
- Conducted unit testing and QA documentation to ensure deployment reliability.
- Developed automated evaluation scripts using PyTest and Python.
- Reported weekly progress to the AI Platform director.

## Projects

### Multi-AI Agent Project – Agentic Automation & MLOps Deployment

2025

- Designed a multi-agent orchestration system integrating LangGraph, LangChain, and FastAPI.
- Configured Docker Engine with Jenkins and SonarQube for automated CI/CD.
- Deployed the containerized workflow to AWS ECS Fargate with environment-based pipelines.

### Ozon AI Advanced – AI Skill-Driven Platform

2025

- Built an AI-driven web platform recommending personalized learning paths, projects, and courses.
- Integrated Flask backend with React.js frontend and database using SQLAlchemy.
- Automated course suggestions using LLMs and user skill mapping.

### Horizon-LaTeX — AI Recruiter Copilot

Composio Hackathon 2025 (Best Idea Award)

- Built a multi-agent recruitment pipeline automating resume parsing, candidate scoring, and interview scheduling.
- Integrated vector database (FAISS/Chroma) for semantic search and candidate enrichment using RAG.
- Orchestrated the workflow using LangGraph and automated outputs via Google Sheets and Calendar APIs.
- Tech: LangGraph, Groq LLMs, FastAPI, Composio, FAISS/Chroma, Google APIs

### Emotion-Based Music Recommender System

2024

- Developed emotion detection using facial expression and text sentiment for personalized recommendations.
- Integrated fake emotion mitigation for higher accuracy.

## Achievements

- Best Idea Award – Composio Hackathon 2025 — Project: Horizon-LaTeX (AI Recruiter Copilot) — Role: Team Leader & AI Engineer
- Winner – ImagenAI Hackathon — Role: Team Leader
- Honorary Mention – Bennett University Hackathon — Role: ML Engineer & Team Leader
- Research Paper Accepted (Springer icicc, 2025): Leveraging Fine-Tuned Transformers and Ensemble Learning for High-Accuracy Marathi Sentiment Classification

## Education

B.Tech in A.I & Data Science —Guru Gobind Singh Indraprastha University, New Delhi  
Current CGPA: 8.0 / 10

Expected 2027