

LAKHAN SINGH

Jaipur, Rajasthan, India

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Professional Experience

Eoxys IT Solution

Aug 2024 – Dec 2025

Artificial Intelligence Engineer

Jaipur, India

- Designed and deployed a scalable LLM data pipeline using **Gemini + LangGraph**, achieving a throughput of **5M+ records/hour** and reducing manual effort by **40%**.
- Built a RAG-based recommendation engine using **LangChain**, increasing contextual response accuracy by **35%**.
- Developed asynchronous, multi-agent LLM workflows with **LangGraph** for advanced reasoning, summarization, and retrieval tasks.
- Created an internal summarization platform using **FastAPI + OpenAI**, cutting editorial workload by **40%**.
- Implemented CI/CD automation via **GitHub Actions, Docker, and AWS EC2**, ensuring **99.9% system uptime** and seamless rollouts.
- Led safe feature rollouts across multiple regions using feature toggles and gradual deployment strategies.

Voicexp AI

Jan 2024 – Apr 2024

NLP Engineer

Jaipur, India

- Developed a conversational AI assistant for voice-based pizza ordering using **LangChain, WhisperASR, and AWS**; achieved **92% task success rate** across diverse user scenarios.
- Scaled backend infrastructure by integrating **FastAPI** with asynchronous request handling, supporting **100+ concurrent users** efficiently.

TechieNest Pvt. Ltd.

Nov 2022 – Dec 2023

Data Scientist

Jaipur, India

- Built an end-to-end sentiment analysis pipeline leveraging **NLP + ML models**; achieved **88%+ accuracy** and auto-flagged negative reviews for 24/7 customer service response.
- Collaborated with cross-functional teams to deploy the model into production, enabling real-time review monitoring and sentiment tagging.

PROJECTS

AI-Powered Surveillance System | YOLOv12, ByteTrack, Gemini 1.5, LangChain, Streamlit

- Built real-time surveillance system using YOLOv12 + ByteTrack for loitering and anomaly detection.
- Integrated Gemini 1.5 Flash + LangChain to trigger contextual alerts, boosting anomaly detection by **30%**.
- Deployed live dashboard with Redis + Streamlit, reducing response time to under 2s.

AI-Driven Job Matching Assistant | Gemini, BERT, LangChain, Streamlit

- Developed a resume-to-job matcher achieving **98%** accuracy using Gemini + BERT embeddings.
- Automated ATS screening, reducing manual HR effort by **50%**.
- Deployed as an end-to-end app with LangChain + Streamlit.

TECHNICAL SKILLS

Languages: Python, SQL

AI/ML: Machine Learning, Deep Learning, NLP, Transformers, Prompt Engineering, RAG, LLMs, LangChain, LangGraph

Frameworks & Libraries: PyTorch, TensorFlow, HuggingFace, Scikit-learn, FastAPI, Streamlit

DevOps & Tools: Git, Docker, GitHub Actions

Cloud & APIs: AWS (EC2, S3), OpenAI APIs, Gemini

ACHIEVEMENTS

- Ranked among the Top 5 teams out of 200+ participants in a national-level hackathon by building an AI-powered EdTech web app using LangChain and Gemini.
- Solved 300+ coding problems on GeeksforGeeks and 100+ on LeetCode to strengthen Data Structures and Algorithms skills.

EDUCATION

Jaipur Engineering College

B.Tech in Computer Science | CGPA: **9/10**

May 2019 – May 2023

Jaipur, India