

Mohit Kumar

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PROFESSIONAL SUMMARY

AI/ML Engineer with experience in LLMs, Retrieval-Augmented Generation (RAG), Generative AI, and end-to-end model deployment. Skilled in embeddings, semantic search, supervised & unsupervised learning, NLP pipelines, and scalable AI system development using Python, TensorFlow, LangChain, FAISS, and Streamlit.

TECHNICAL SKILLS

Programming: Python, C++

Machine Learning & AI: Supervised Learning, Unsupervised Learning, RAG Pipelines, LLM Applications, Embeddings, Semantic Search, Model Deployment, Model Evaluation

Frameworks: TensorFlow, Keras, Scikit-learn, LangChain, FAISS, NumPy, Pandas, Matplotlib

Tools: Jupyter Notebook, GitHub, VS Code, Streamlit, Ollama

Databases: MySQL, SQLite, Oracle

Focus Areas: Generative AI, NLP, Information Retrieval, Data Preprocessing, Model Optimization

PROFESSIONAL EXPERIENCE

ML Engineer — Per4mance Guru (Sept 2025 – Present)

- Developing production-level ML pipelines in a startup environment.
- Responsible for model development, testing, deployment, and optimization.
- Ensuring confidentiality, ethical compliance, and high-quality delivery.
- Working across preprocessing, training, evaluation, integration workflows.
- Maintaining disciplined 5-day workflow and project-based work timings.

AI/ML Trainee — Sensation Software Solutions Pvt. Ltd., Mohali (Jan 2025 – Jun 2025)

- Developed and deployed an emotion recognition system achieving 78% accuracy (+18% over baseline).
- Improved generalization by 25% using preprocessing and augmentation techniques.
- Evaluated models using precision, recall, F1-score & confusion matrix.
- Automated training data pipelines using Pandas for scalability and reproducibility.

PROJECTS

AskMyDoc – AI-Powered Document Q&A;

- Built a RAG-based document Q&A system using FAISS & Ollama LLMs for PDF, DOCX & TXT understanding.
- Improved retrieval accuracy by ~40% via optimized embeddings & chunking.
- Designed a Streamlit chat interface for interactive knowledge retrieval.

AI Resume Parser & Matcher

- Created an AI-powered resume-job matching tool using LangChain, FAISS & Ollama LLMs.
- Generated structured match scores, strengths, gaps & recommendations, reducing manual screening by ~60%.
- Supported PDF, DOCX & TXT parsing with real time response generation.

Emotion Recognition System

- Built a deep learning emotion classification model using TensorFlow/Keras (78% accuracy).
- Enhanced robustness via augmentation & class rebalancing techniques.

EDUCATION

Master of Computer Applications (MCA) — Punjabi University, Patiala (Jun 2025)

Bachelor of Science (B.Sc.) — Magadh University, Bodh Gaya (May 2023)

12th — T.S College Hisua, BSEB Patna (Jun 2018)

10th — High School Hisua, BSEB Patna (May 2016)