

Bahawal Khan

AI/ML Engineer | Generative AI | Agentic AI

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PROFESSIONAL SUMMARY

AI/ML engineer focused on building modern AI-powered applications. Hands-on experience across classical machine learning, deep learning, generative AI, retrieval-augmented generation (RAG), and agentic AI — including LLM-integrated applications built with LangChain and LangGraph, agent workflows with tool calling, and full-stack delivery using FastAPI, PostgreSQL, React.js, and Next.js.

EDUCATION

Bachelor of Science in Computer Science (BSCS)

August 2023 – Present

University of Lahore, Lahore, Pakistan

CORE AI/ML AREAS

- **Machine Learning:** Data preparation, exploratory analysis, feature engineering, model training, evaluation, and deployment using Python-based ML tooling.
- **Deep Learning:** Neural-network architectures including ANN, CNN, RNN, LSTM and GRU, with exposure to Transformers and large language models.
- **Generative & Agentic AI:** RAG pipelines, embeddings, retrievers, vector stores, LangChain components, LangGraph agent workflows, and tool-calling based AI agents.
- **AI Observability & Evaluation:** LangSmith for tracing and monitoring LLM/agent runs, RAG evaluation suites, and LLM output evaluation.
- **AI Application Development:** FastAPI backend development, PostgreSQL/MySQL databases, LLM API integration, and React.js/Next.js interfaces for AI-powered applications.

TECHNICAL SKILLS

- **Programming:** Python, C++, JavaScript, HTML5, CSS3
- **Machine Learning:** Scikit-learn, NumPy, Pandas, Matplotlib, EDA, Feature Engineering, Model Training/Evaluation/Deployment
- **Deep Learning:** TensorFlow, Keras, ANN, CNN, RNN, LSTM, GRU, Transformers, LLMs
- **Generative & Agentic AI:** LangChain, LangGraph, RAG, Retrievers, Vector Stores, Embeddings, AI Agents, Tool Calling
- **AI Observability & Evaluation:** LangSmith, RAG Evaluation Suites, LLM Evaluation
- **Backend & Databases:** FastAPI, PostgreSQL, MySQL, SQL, Database Design
- **Web Development:** React.js, Next.js, HTML5, CSS3, JavaScript
- **Tools:** Git, GitHub, VS Code, Microsoft Office

LINKS

GitHub: github.com/bahawal-khan **Portfolio:** khanova.tech **LinkedIn:** linkedin.com/in/bahawal-khan-9b1124313