Zaheer Khan

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Indore

SUMMARY

AI Engineer skilled in building machine learning and deep learning pipelines, LLM-powered tools, and agent-based systems. Experienced in Python, PyTorch, Scikit-learn, LangChain, and FastAPI. Deployed real-world RAG systems, Transformers, and multimodal agents for video summarization, document analysis, and financial intelligence.

SKILLS

Languages: Python, C, C++, SQL
ML/DL Libraries: PyTorch, Scikit-learn, TensorFlow, XGBoost, Hugging Face Transformers
Frameworks & APIs: LangChain, Streamlit, FastAPI, Google ADK, CrewAI
Tools & Platforms: Git, Jupyter Notebook, VS Code, Docker, MySQL, Postman, Cursor
Concepts: MCP, RAG, Transformers, Agentic Systems, NLP, Prompt Engineering

PROJECT EXPERIENCE

Personal Projects

Multimodal AI Agent – Video Summarizer *[GitHub](#)*

Tech: Python, Streamlit, Gemini 2.0, NLP, Computer Vision

- Engineered an AI-based video summarization system combining computer vision and NLP to extract key highlights.
- Integrated Gemini 2.0 and DuckDuckGo APIs for real-time semantic summarization.
- Deployed as a Streamlit app, reducing manual video review time by 60%.

RAG Chatbot with Chat History *[GitHub](#)*

Tech: Python, LangChain, FAISS, NVIDIA Embeddings, NLP

- Developed a document-based RAG chatbot supporting PDF uploads and memory-based Q&A.
- Leveraged FAISS for fast vector search and NVIDIA embeddings for contextual relevance.
- Enabled users to interact with long documents with >85% accuracy in response matching.

Insurance Premium Predictor *[GitHub](#)*

Tech: Python, XGBoost, Scikit-learn, Streamlit, Jupyter

- Trained ML models segmented by age groups for personalized insurance premium predictions.
- Used XGBoost for optimized predictions, achieving 92% accuracy on validation data.
- Built a Streamlit UI with dynamic input forms and real-time prediction output.

Transformer from Scratch – Attention is All You Need *[GitHub](#)*

Tech: Python, PyTorch, NLP, Deep Learning

- Implemented a full Transformer architecture (encoder + decoder) from scratch based on the original paper.
- Developed multi-head attention, positional encodings, and masking mechanisms in PyTorch.
- Trained on sequence-to-sequence dataset for translation task with BLEU score benchmarking.

EDUCATION

Sushila Devi Bansal College of Engineering   **Indore, India**
B.Tech in Computer Science & Engineering   *Graduation Date: Jun 2025*

CERTIFICATIONS

• Mathematics – Basics to Advanced for Data Science and GenAI – Udemy (2024)

• Master Machine Learning For Data Science – Codebasics (2024)

• Complete Generative AI Course With Langchain and Huggingface – Udemy (2025)