

# 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**

B.Tech in Computer Science & Engineering

Indore

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)