Khushi Aherwar

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Seeking a challenging career with a progressive organization that provides an opportunity to capitalize my technical skills & abilities in the field of Artificial Intelligence.

EDUCATION

VIT University — Bhopal, M.P
*Master of Technology **(GPA: 8.33)*** — *Expected june 2026*

Institute Of Engineering and technology, DAVV — Indore M.P
*Bachelor of Engineering **(GPA: 7.5)*** — *2018 - 2022*

TECHNICAL SKILLS

Language: Python,Java, C/C++, SQL,
AI and Generation: AI/Ml, DeepLearning, NLP, RAG(FAISS, ChromaDB, Knowlwdge Graph), LLM, Langchain
Frameworks: Tensorflow, Scikit-Learn
Libraries: numpy, pandas,matplotlib
Tools: Git, Github, Github Action, Docker, Kubernetes

EXPERIENCE

Software Intern — Aug 2025- Feb 2025
DRDO — Banglore
- Developed a **Retrieval-Augmented Generation (RAG) pipeline** using a locally fine-tuned LLM with on-device vector search to provide fast, secure, and offline domain-specific responses.
- Worked with multiple **local open-source LLMs** (LLaMA-based, Mistral, quantized models) to benchmark performance, memory usage, and response quality for offline deployment.
- Trying to enhance the accuracy and reliability through targeted **fine-tunin**g and improved retrieval strategies for domain-specific queries.
- Implemented and evaluated different **embedding models and vector databases** for efficient document retrieval, reducing latency and improving answer relevance.

Traniee Intern — july 2022- october 2022
Yash technologies — *Indore, M.P*
- learn Java FullStack Development

PUBLICATION

Research Project -Knowledge graph with RAG Architecture for context-Aware Q/A| LLM — Dec-2025
- Built a domain specific **Graph-RAG system** combining Knowledge Graphs, FAISS, and LLMs for context-aware question answering on Indian history data.
- Extracted entities and relations to construct an in-memory Knowledge Graph for improved retrieval and reasoning.

PROJECTS

Wildlife Conservation using deep lrarning| computer vision — *oct*-2025
- Developing a image classification model which shows that how Ai can help in Wildlife Conservation.
- Used wildlife dataset for training and testing data and used Yolov11 model for better accuracy and results
- continuing with writting research paper on it and publish it.

Developed an interactive Dashboard| *PowerBI* — July-2025
- To analyse an Road Accident Data incoorporates key KPI's to get the features and insights and derive the insights for road safety improvement

Achievement

- Contributed to building an **offline RAG system with locally deployed LLMs at DRDO Bangalore** to improve domain-specific retrieval accuracy.
- Built a **BERT-based healthcare chatbot** in a hackathon for context-aware medical query handling.
- Completed **Deloitte Technology Virtual Internship**, gaining hands-on exposure to real-world tech problem-solving.