

# Muhammad Shaban

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## SUMMARY

Computer Science undergraduate with hands-on experience in building scalable AI and Machine Learning applications. Specialized in Large Language Models (LLMs), AI-driven chatbots, vector search, and automation. Skilled in Python scripting, LangChain, Streamlit, FastAPI, and vector databases like FAISS. Passionate about delivering intelligent systems with real-world impact.

## SKILLS

**Programming:** Python, C++

**AI & ML:** Supervised Learning, NLP, Prompt Engineering, Agentic AI

**Frameworks:** LangChain, Streamlit, FastAPI, TensorFlow, YOLOv8

**Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

**Tools:** Git, Jupyter, Linux, Hugging Face, Groq,

**Databases:** MySQL, FAISS

**Web:** HTML/CSS, API Integration

## EXPERIENCE

### AI Developer Intern

July 2025 – Present

*Naventra Infotech Pvt Ltd (Remote)*

- Built intelligent AI agents using GPT-4 and Groq LLaMA for real-time data processing
- Integrated LangChain for agentic workflows with vector DB Q&A (FAISS)
- Developed APIs (FastAPI) and Streamlit-based interfaces for chatbot delivery
- Ensured secure infrastructure and compliance for AI workflows

## PROJECTS

### Finsolve Bot – AI Chatbot Platform | *Streamlit, FastAPI, FAISS*

- Created a secure multi-role chatbot interface using Streamlit and FastAPI
- Enabled contextual file-based Q&A with FAISS and Hugging Face embeddings
- Built analytics dashboard and real-time vector DB updates

### Job Auto Apply Bot | *Selenium, DeepSeek-V3, Streamlit*

- Automated Internshala job applications via resume parsing and DeepSeek-V3 (Together.ai)
- Used Selenium for automation with duplicate prevention and activity logs
- Streamlit dashboard for resume upload, job tracking and matching

### AI Chatbot with Web Search | *LangChain, Groq, Prompt Templates*

- Built multi-LLM chatbot with memory, web search, and structured prompts
- Supported dynamic context injection and tool usage

### Helmet Detection | *YOLOv8, OpenCV*

- Computer vision model for real-time helmet detection in video feeds
- Achieved 92% accuracy using YOLOv8 trained on custom dataset

## EDUCATION

### Bachelor of Technology – Computer Science and Engineering

2024 – 2028

*COER University, Roorkee*

*CGPA: 9.38 (2nd Sem), 9.18 (1st Sem)*

### Senior Secondary (Intermediate)

2023

*Atal Utkrisht Government Inter College, Roorkee*

*First Division*

## CERTIFICATIONS & RESEARCH

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- **Codebasics Certificate of Appreciation (Jul 2025):** Developed a RAG-based, role-specific chatbot for FinSolve Technologies as part of a resume project challenge.
- **IEEE Presenter (2025):** Presented research on *EDS-DPCXT: Efficient Data Security Using Deque-Based Cipher + XOR* at IEEE Conference.
- **ICMCE Lead Author (2025):** Published paper on *Spam Detection via AdaBoost + Random Forest* at the International Conference on Machine and Communication Engineering.

## ACHIEVEMENTS

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- **"Cheetah" Award – DcodersSquad:** Fastest internal sprint solver
- **State-Level Badminton Player:** Represented Uttarakhand

## ADDITIONAL INFO

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**Languages:** English, Hindi

**Interests:** AI Research, Automation, Open Source, Badminton, Ethics in AI