

# Ayesha Noman

AI developer building intelligent systems that solve real problems. I create LLM-powered chatbots, AI agents, and RAG pipelines with seamless user experiences. From backend architecture to frontend interfaces, I build production-ready AI that works for humans.

## Work Experience

### AI/ML Developer Intern

#### RevoticAI

August 2025 - October 2025

- Integrated a live AI chatbot widget into the company website using FastAPI, delivering real-time query resolution for RevoticAI products/services with seamless user experience and reduced support overhead.
- Fine-tuned LLM models to generate structured outputs following specific formatting standards for academic references and research papers, ensuring >95% compliance with citation styles.
- Developed production-ready RAG pipelines for document ingestion and retrieval, processing multiple document formats (PDF, DOCX, etc.) to enable context-aware Q&A and knowledge extraction; served via FastAPI for scalable, low-latency inference.

### AI Engineer Intern

#### Wenawa

June 2025 - August 2025

- Developed a RAG-powered AI voice assistant using ASR and TTS for real-time speech-to-speech medical conversations; enabled symptom checking, emergency routing, and pre-diagnosis with >90% accuracy in test scenarios.
- Researched and benchmarked open-source ASR/TTS models (e.g., Whisper, Coqui, ElevenLabs), optimizing latency by 35% and improving response time for real-time inference use cases.
- Built 10+ automation workflows using n8n across HR, lead gen, financial reporting, and content ops; integrated google services and databases (Quadrant, Postgres) to streamline multi-domain processes.

## Projects

### Citable RAG Question-Answering System (Mistral 7B Fine-Tuned)

A Retrieval-Augmented Generation (RAG) system leveraging a fine-tuned Mistral 7B model to deliver concise, citation-backed answers from uploaded documents. Integrated LangChain and FAISS for efficient document retrieval and semantic search, deployed via FastAPI for real-time Q&A and document ingestion. Ensured factual accuracy through enforced citation formats and optimized model responses using QLoRA fine-tuning on domain-specific datasets.

### Propexity - AI Powered Real Estate Agent

Propexity – AI Real Estate Agent, an ongoing project that reimagines property search in Pakistan. Propexity aggregates real estate listings from platforms like Zameen, OLX, Lamudi etc, then presents users with details such as price, location, and features—along with direct source links. Think of it as Perplexity for real estate, built to make property discovery smarter and faster. Upcoming features include multi-language support, map-based exploration, and an API version for global scalability.

## Contact

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## Skills

### Technical Skills

- Natural Language Processing
- Retrieval Augmentation Generation (RAG)
- AI Automation
- AI Agents and Chatbot Development
- LLM Orchestration and Prompt Engineering
- Finetuning LLMs
- Text-to-Speech (TTS) and Automatic Speech Recognition (ASR)
- Frontend Development

### Tools

- Python, C++, C#
- HTML, CSS, JS (Basic)
- Langchain, LlamaIndex, Langgraph, HuggingFace, Pytorch
- VectorDBs: FAISS, Pinecone
- FastAPI, Streamlit, n8n, GCP

### Certification

- Google AI Essentials
- Finetuning Large Language Models
- AI Agents in LangGraph
- Working with Hugging Face
- Working with OpenAI API
- ChatGPT Prompt Engineering for Developers

## Portfolio

<https://github.com/Ayesha86527>

## **PharmaGene - Clinical decision-support AI for minimizing medication risks and improving patient safety.**

An AI-driven solution to reduce medication errors, one of the leading causes of preventable deaths worldwide. Analyzes patient health records, lab data, and genetic markers to provide personalized prescribing insights. Leverages trusted medical sources and real-world case studies to support clinicians in safe decision-making. Designed a prototype that empowers doctors with real-time, reliable, and evidence-based recommendations. Aims to enhance patient safety, reduce avoidable healthcare costs, and deliver safer, more personalized care.

## **Educational Background**

### **Bachelor's in Software Engineering**

NED University of Engineering and Technology  
Jul 2024 - present