Waris Hayat

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Education

Numl University - Present   Islamabad, PK
BS-Software Engineering, GPA [3.01 out of 4.0 GPA]   Graduation Date: 01-2026
Relevant Coursework: DSA, OOP (C++, Java, and Python), Statistics & Mathematics, Machine Learning, System Design.

Skills & Interest

Languages: Python, Java, JavaScript C++, HTML/CSS, Bootstrap**.**
Data Analysis: NumPy, Pandas, SQL, Excel**.**
Visualization: Matplotlib, Seaborn, Plotly.
Machine Learning: TensorFlow, Keras, Scikit-learn, PyTorch, Transfer Learning, Transformers, fine-tuning LLm's, LangChain, LangGraph,Crewai**.**
NLP: NLTK, Hugging Face, SpaCy.
Web Frameworks: FastAPI (REST APIs), Streamlit, and basic React.js.
Tools: Docker, Git/GitHub.
IDEs: PyCharm, Google Colab, VS Code, Cursor, Jupyter Notebook,Replit.

Experience

NERD FLOW

Junior AI Engineer - (On-site)   Rwp, 3-2025 to 5-2025
- Developed NLP models to enhance language understanding and extract meaningful insights from text data.
- Built RAG applications for efficient information retrieval and implemented multimodal prompting techniques to improve AI interactions.
- Designed and optimized backend infrastructure to support scalable and high-performance AI solutions.
- Researched and developed AI agents for process automation, decision-making, and knowledge engineering.

ARTIFICIZEN

AI/ML Engineer - Internship (Remote)   Sheridan, 2-2025 to 3-2025
- Developed NLP-powered chatboats with advanced language understanding and interaction capabilities.
- Built Retrieval-Augmented Generation (RAG) applications for enhanced information retrieval and response generation.
- Created agentic AI systems to automate tasks and streamline intelligent workflows.
- Integrated cutting-edge AI technologies to develop scalable and high-performance solutions.

Projects

JobPret-BeReadyForJob
- Built an AI-powered resume analyzer using Streamlit with features like role-based analysis, chat with resume, and interview prep.
- Integrated LLM-based RAG pipeline to generate contextual Q&A and tailored cover letters from resume content.
- Enabled dynamic role selection with automatic skill mapping and feedback on strengths, weaknesses, and missing

skills.

- Added multi-tab UI with sidebar-driven config and download options for personalized resumes and cover letters.
- Try it out here: JobPret-Pro · Streamlit

Health Specialist - Multispecialist Healthcar Assistant

- Built a multi-specialist AI healthcare assistant with 8+ domain experts (e.g., physician, dietician, dermatologist) using LangChain, Groq and Gemini.
- Integrated document and image analysis for medical PDFs and X-rays, enabling intelligent visual and textual interpretation.
- Developed a Streamlit frontend with modular tabs and real-time conversation interface for user-friendly access.
- Used FAISS for RAG-based retrieval and Groq Vision for multimodal reasoning in Specialist-specific workflows.
- Try it out here: HealthHub AI - Multi-Specialist Healthcare Assistant · Streamlit

Voice Base RAG Application

- Ask questions using your microphone and get instant spoken answers, powered by speech recognition and text-to-speech.
- Upload any PDF and use local RAG (Retrieval-Augmented Generation) to extract relevant answers in real-time.
- Built to ensure simultaneous voice interaction and response without delay.
- Designed using Gradio with custom modules for speech, PDF parsing, and audio output.
- Check it out here: Voice-Based-Rag/app.py at main · Warishayat/Voice-Based-Rag

Leadership & Activities

Microsoft   Remote
Campus Ambassador   USA - (2023-24)

- Organized technical events to promote Microsoft technologies and student learning.
- Supported Microsoft Learn initiatives, guiding students with resources and skill development.
- Represented Microsoft in student forums, sharing insights on Power Platform and GitHub.

Devsinc   Hybrid
Campus Ambassador   Islamabad - (2025-26)

- Act as a bridge between Devsinc and the campus, fostering collaboration and engagement.
- Organize technical events and workshops to promote Devsinc's initiatives among students.
- Represent Devsinc on campus, creating awareness and networking opportunities.

Competitions & Hackathons

NLP Hackathon by Ready Tensor

Fine-tuned Google T5 on custom data using LoRA & QLoRA for efficient NLP model training
Achieved performance optimization on limited hardware using parameter-efficient fine-tuning techniques.

Decthon Hackathon by DevPost

Trained a provided model on given dataset and achieved 80% accuracy without modifying any hyperparameters. Ranked in the Top 10 out of 80 teams based on model performance.

Gen-AI Hackathon by Aspire Pakistan & IcodeGuru

Developed a Streamlit-based AI assistant with 8 medical specialist agents using Groq LLMs and Gemini, enabling image & PDF-based medical analysis and interactive health insights. Collaborated on end-to-end system architecture and deployment.