Nauman Ali Murad

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology Topi, KP
Bachelor of Science in Data Science *Sep. 2022 – Present*

EXPERIENCE

AI Intern Jul 2025 – Sep 2025
Musketeers Tech *Lahore, Punjab – On-Site*
- Implemented RAG pipelines using ChromaDB and Groq LLMs, integrated with MCP (Model Context Protocol) to enable secure, real-time tool access and actionable reasoning on unstructured documents.
- Developed agentic AI systems using LangGraph, CrewAI, and LangChain, orchestrating multi-agent workflows to generate insights for market intelligence and analytics.
- Integrated Groq inference, vector dbs, and prompt-engineered reasoning models into production-grade SaaS-style pipelines for business insights.

Data Analytics Intern & Trainee Jul 2024 – Dec 2024
Gallup Pakistan *Lahore, On-site (Intern), Remote (Trainee)*
- Started as an intern (**July–Aug 2024**) and contributed to scraping large datasets, transforming them into actionable insights using Power Query and Excel.
- Built dashboards for Pakistan's Federal Budget 2024 - 2025 and analyzed publicly available datasets on crisis, economy, and immigration.
- **Promoted** to remote trainee (**Sep–Dec 2024**) and automated survey analysis and infographic generation using LLMs like Meta-Llama-3-8B and Gemini-1.5 Flash.
- Developed machine learning models for sentiment analysis and news classification using DeBERTa, GRU, and fastText.
- Streamlined hiring processes by automating resume screening with an NLP-based script.
- Created dashboards for the 7th National Census and other key projects at Gallup Pakistan Digital Analytics.

PUBLICATIONS

"Advanced Deep Learning Driven Geospatial Analysis for GLOF Risk Reduction: A Case Study from Pakistan's Northern Mountain Ranges" Nauman A. Murad, Abinta M. Mir, Nazia Shahzadi.

PROJECTS

BazaarIntel | *LangGraph, LLaMA 4, Playwright, Streamlit* | Independent
- Built an AI analytics platform for fashion brands that automates data scraping, SEO analysis, and trend reporting through agentic workflows and interactive dashboards [**GitHub**]

Sentiment Observatory | *Python, FastAPI, Playwright, Groq LLMs* | Musketeers Tech
- Developed a cross-platform content analysis tool that scrapes and transcribes social media content and uses multimodal LLMs to generate sentiment, theme, and virality insights. [**GitHub**]

Pakistan Census Dashboard | *Power BI, DAX, Mapbox API, Excel* | Gallup Pakistan
- Designed an interactive Power BI dashboard for Pakistan's 7th digital census analysis. [**Dashboard**]

Cloud-Native Web API Deployment | *AWS EC2, Flask, Docker, MySQL, Terraform* | GIKI
- Deployed a containerized Flask API on AWS EC2 with Docker and Terraform. [**GitHub**]

Mini Transformer – Seq2Seq Translator | *PyTorch, Seq2Seq, Attention* | Musketeers Tech
- Implemented a Transformer model from scratch in PyTorch for sequence-to-sequence translation. [**GitHub**]

VOLUNTEERING

Member Nov 2024 – Present
Cohere for AI (C4AI) *Remote*

SKILLS & INTERESTS

Programming: Python, C/C++, SQL, Assembly, Verilog HDL
Technical: CV, NLP, Transformers, LLMs (GPT-4/4o, GPT-5, ViT, SAM), RAG, Multi-Agent Systems, Fine-tuning, TensorFlow, PyTorch, EDA, Feature Eng., Statistical & Time Series analysis, Data Warehousing, ETL Pipelines
Tools & Frameworks: AWS, Azure, Docker, Git, FastAPI, Flask, Streamlit, Hugging Face, LangChain, LangGraph, CrewAI, ChromaDB, Postgres, SQLite, OpenAI, Anthropic, Groq, n8n, Power BI, Tableau, Looker Studio, Flourish
Languages: English, Urdu, Pashto, Khowar (Chitrali)