

MUHAMMAD NOUMAN HAFEEZ

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Profile

Final Semester Computer Science student at FAST NUCES Islamabad who solves complex problems with code and creative engineering. I love to design AI-driven, data-centric, DevOps-enabled solutions that are intelligent, scalable, and deliver real-world impact. I aim to merge AI, full-stack development, and data science to build value-driven, future-ready solutions.

Education

FAST NUCES Islamabad

Aug 2021 – May 2026

BS in Computer Science — CGPA: 3.15/4.00 — i210416@nu.edu.pk

Experience

Full Stack AI Intern

Jun 2025 – Aug 2025

AIM Lab – AI & Software R&D, Islamabad

- Implemented supervised and unsupervised learning models with advanced ML pipelines
- Developed AI-powered investment advisory platform for Pakistan Stock Exchange using LangGraph, LangChain, Flask API, and React frontend with real-time analysis and news integration
- Project Repository: github.com/noumanic/bullbearpk.git

AI ChatBot Development Intern

Jul 2024 – Aug 2024

UrduX – IT Services and IT Consulting, Islamabad

- Built and deployed an LLM-based AI ChatBot with full-stack integration and scalable cloud architecture
- Applied NLP and ML techniques to enhance conversational AI systems
- Project Repository: github.com/noumanic/HarmonyBot-v1.0.git

Projects

BullBearPK - AI Investment Advisory Platform | *LangGraph, LangChain, Flask, React*

- AI-powered investment advisory platform for Pakistan Stock Exchange with real-time analysis and news integration
- Built using LangGraph and LangChain with Pythonic backend (Flask API) and React frontend
- Complete web application with intelligent trading insights and market sentiment analysis
- Repository: github.com/noumanic/bullbearpk.git

Stockify - CI/CD with Jenkins & Stock Prediction | *Jenkins, Docker, React, Flask, MySQL*

- Implemented complete CI/CD pipeline using Jenkins with GitHub webhook integration and containerized multi-component architecture using Docker Compose with automated builds and DockerHub integration
- Developed full-stack stock prediction application with rule-based 3-day moving average algorithm, React frontend with professional UI, Flask backend API, and MySQL database for historical data storage
- Repository: github.com/noumanic/ci-cd-with-jenkins-and-stock-prediction.git

MLOps Inference Pipeline with Monitoring and Alerting | *FastAPI, Prometheus, Grafana, Docker, AWS*

- Built production-grade MLOps pipeline with automated model training, FastAPI inference API, and monitoring stack using Prometheus, Grafana, and Alertmanager with Slack alerts
- Deployed on AWS EC2 using Terraform IaC and Docker Compose with drift detection, auto-retraining, and multi-service architecture including Node Exporter and Blackbox monitoring
- Repository: github.com/noumanic/mlops-inference-pipeline.git

Technical Skills

Programming Languages: C/C++, Python, Java, JavaScript, HTML, CSS, Assembly (x86), SQL, CUDA, Bash

Frameworks & Libraries: Flask, Node.js, React.js, Express, SFML, LangGraph, LangChain

Tools & Technologies: VS Code, IntelliJ, Eclipse, Cisco, PyCharm, Visual Studio, Git, GitHub, LaTeX (Technical Writing), Linux, MLflow, Airflow, K8s, Docker, DVC, Prometheus, Grafana, Jenkins

Databases: MongoDB, MySQL, SQL, PostgreSQL

Domains: Full-Stack Engineering, AI/ML, Data Science