

MUHAMMAD NOUMAN HAFEEZ

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Profile

Final year 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 – Present

BS in Computer Science — CGPA: 3.01/4.00 — i210416@nu.edu.pk

- **Core CS:** IICT, Programming Fundamentals, OOP, Data Structures, Discrete Structures, Digital Logic Design, Computer Organization & Assembly Language, Theory of Automata, Database Systems, Operating Systems, Design & Analysis of Algorithms, Software Design & Analysis, AI, Information Security, Parallel & Distributed Computing, Software Engineering, Computer Networks
- **Mathematics:** Probability & Statistics, Calculus & Analytical Geometry, Differential Equations, Linear Algebra, Numerical Computing
- **CS Electives:** Data Mining, Fundamentals of Software Project Management, MLOps
- **Management Electives:** Marketing Management, Fundamentals of Management
- **Other Core:** Applied Physics, Islamic Studies/Ethics, English Composition & Comprehension, Communication & Presentation Skills, Technical & Business Writing

Experience

Full Stack AI Intern

Jun 2025 – Aug 2025

AIM Lab – AI & Software R&D, Islamabad

- Implementing supervised and unsupervised learning models with advanced ML pipelines
- Developing AI-powered investment advisory platform for Pakistan Stock Exchange using LangGraph and LangChain
- Building complete web applications with Pythonic backend (Flask API) and React frontend integration
- Conducting research and development in applied AI systems 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 an LLM-based AI ChatBot with front-end and back-end integration
- Deployed solutions on cloud environments with scalable architecture
- Applied NLP and ML techniques to enhance conversational systems
- Project Repository: github.com/noumanic/HarmonyBot-v1.0.git

Teaching Experience

Lab Demonstrator – Database Systems

Jan 2025 – Jun 2025

FAST NUCES Islamabad

- Conducted practical sessions on relational databases and SQL
- Supported students with schema design and query optimization

Lab Demonstrator – Operating Systems

Jan 2025 – Jun 2025

FAST NUCES Islamabad

- Guided students in systems programming and OS concepts
- Supervised hands-on labs on process synchronization and memory management

Teaching Assistant – Numerical Computing

Aug 2024 – Jan 2025

FAST NUCES Islamabad

- Assisted students with algorithmic implementation of numerical methods
- Supported instructional and grading tasks

Teaching Assistant – Differential Equations

Jan 2024 – Aug 2024

FAST NUCES Islamabad

- Conducted tutorials and provided academic support in applied mathematics
- Provided continued assistance in understanding and solving mathematical problems

Projects

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

2025

- 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*

2025

- Implemented complete CI/CD pipeline using Jenkins with GitHub webhook integration for automated deployments
- Developed full-stack stock prediction application with rule-based 3-day moving average algorithm and dynamic confidence calculation
- Containerized multi-component architecture using Docker and Docker Compose with automated image builds and DockerHub integration
- Built modern React frontend with professional UI/animations and Flask backend API with MySQL database for historical data storage
- Repository: github.com/MLOPS-Fall-2025/ci-cd-with-jenkins-and-stock-prediction-neuralnouman.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, 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, LLMs, Data Science

Languages

Urdu: Native/Bilingual

English: Fluent

German: Basic / Limited Working Proficiency

Achievements

Academic: Consistently strong academic performance throughout university

Teaching: Successfully mentored multiple student cohorts in Computer Science and Mathematics

Project Portfolio: Completed 12+ diverse projects across AI, Data Science and Full Stack Development

Industry Experience: Hands-on AI/ML and Full-Stack development experience through internships

Research: Actively exploring AI applications in real-world financial and business contexts

Interests

Professional: Artificial Intelligence, High-Performance Computing, Full-Stack Development, Teaching & Mentoring

Personal: Problem Solving, Technology Exploration, Open Source Contributions, Financial Technology

For the most up-to-date version of this CV, please visit: github.com/noumanic/cv-latex

Last Updated: October 12, 2025