



# MUHAMMAD NOUMAN HAFEEZ

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## Profile

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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

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### **FAST NUCES Islamabad**

**Aug 2021 – Present**

*BS in Computer Science — CGPA: 3.01/4.00 — [i210416@nu.edu.pk](mailto: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

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### **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](https://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](https://github.com/noumanic/HarmonyBot-v1.0.git)

## Teaching Experience

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### **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

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### **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](https://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](https://github.com/MLOPS-Fall-2025/ci-cd-with-jenkins-and-stock-prediction-neuralnouman.git)

## Technical Skills

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**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

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**Urdu:** Native/Bilingual

**English:** Fluent

**German:** Basic / Limited Working Proficiency

## Achievements

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**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

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**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](https://github.com/noumanic/cv-latex)

*Last Updated: October 12, 2025*