

Muhammad Hamid Abad

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Career Objective

Data Science undergraduate at FAST-NU with a 3.80 CGPA, skilled in Python, SQL, and machine learning. Experienced in building data-driven and AI-based applications, including NLP and classification systems. Strong foundation in Data Structures and algorithms, with a keen interest in solving real-world problems using data analysis and predictive modeling.

Education

FAST National University (FAST-NU), Lahore

2024 - Present

BS, Data Science

CGPA: 3.80 | 3x Dean's List | Among Top 3 Students in the Data Science Department

Technical Skills

- **Programming Languages:** Python, C++, SQL, JavaScript, C
- **Web Technologies:** HTML, CSS, WordPress
- **Core Concepts & Attributes:** Data Analysis, OOP, Web Automation, LangChain, LangGraph, Basic AI Tools, Proactive Mindset

Experience

OOP Lab Teaching Assistant

Teaching Assistant

- Support students in translating theoretical OOP concepts into practical implementations.
- Participate in grading and feedback processes to maintain consistent evaluation standards.
- Assist students during lab sessions by helping them debug code, clarify logic errors, and improve program structure.

PUCON-25

Campus Ambassador

- Utilized data analysis to optimize promotion strategies, representing the event on campus and coordinating activities
- Leveraged a proactive mindset to engage students and encourage participation in technical sessions and activities

LoopLab (Student-Based Startup)

Campus Ambassador | Top Coordinating Ambassador

- Acted as a liaison between LoopLab and the student community

Power Pack Technologies

2023

Intern

- Assisted in building and optimizing sales funnels and websites
- Worked with basic data analytics to improve user engagement
- Collaborated with the team on performance optimization tasks

Freelance WordPress Developer

- Developed SEO-optimized and responsive websites
- Improved UI/UX based on client requirements
- Delivered multiple projects with a focus on performance and usability

Projects

Human Activity Recognition System (HARS) – Machine Learning Project

- Built a classification system using smartphone sensor data (561 features, 10,000+ samples) to recognize 6 human activities
- Applied PCA for dimensionality reduction and improved model efficiency on high-dimensional data
- Trained and evaluated multiple models: Logistic Regression (90% accuracy) and Neural Network (97% accuracy)
- Performed model comparison using confusion matrix, precision, recall, and F1-score

Quran Explainer – RAG-Based AI Application

- Developed a Retrieval-Augmented Generation (RAG) system using LangChain to provide accurate contextual explanations of Quranic verses
- Designed the application to prevent misuse and misinterpretation by retrieving authentic references before generating response
- Implemented semantic search and context-aware response generation for improved reliability

GitHub: github.com/Hamid4325/quran-explainer

Live: huggingface.co/spaces/Hamid191/quran-explainer

EventDhondo – Event Discovery Platform

- Built a web-based event finder platform to help students discover competitions, workshops, and skill-building events
- Designed user-friendly interfaces to improve accessibility and engagement
- Focused on enabling passionate students to showcase their skills through curated opportunities

GitHub: github.com/Hamid4325/EventDhondo

MaslaPortal – AI-Powered GovTech Complaint System

- Developed an AI-driven single-window complaint management platform for government departments
- Utilized Natural Language Processing (NLP) to analyze and classify user complaints before routing them to the relevant department
- Selected for regional rounds in the National AI Wrapper Competition (Top 750 out of 2800+ teams) and presented project pitch to judges
- Aimed to streamline public grievance redressal through intelligent automation and centralized access

Jarvis Web Assistant

- Developed an AI-based web automation assistant using Python and Flask
- Automated routine browser tasks to improve efficiency

SecureText – Encryption Tool

- Built a GUI-based encryption application in C++
- Implemented Vigenère Cipher and Reverse Cipher techniques

GitHub: github.com/Hamid4325/SecureText

Social Network Console Application

- Designed a Facebook-inspired console application
- Demonstrated strong understanding of Object-Oriented Programming (OOP)

GitHub: github.com/Hamid4325/The-Social-Network

Certifications

- **Harvard CS50x: Introduction to Computer Science**
- **Harvard CS50P: Python Programming**
- **Python, SQL, JavaScript & OOP: Coddy.tech**

Extracurricular

Coding Crew Team

Team Lead – Programming Competitions

- Demonstrated leadership through project coordination and presentations
- Participated in more than 5 competitive programming competitions both national and international
- Strong teamwork and communication skills
- Been Campus Ambassador twice worked with many different people.

Languages

- English (Fluent)
- Urdu (Native)