

# Muhammad Hamid Abad

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## Career Objective

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Data Science undergraduate proficient in Python, SQL, and C++ with hands-on experience in data analysis, basic AI tools, and web automation. Eager to contribute to AI-driven workflows and experimental automation initiatives in a dynamic lab environment.

## Education

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**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

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- **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

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### 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
- Developed Python web automation scripts to coordinate registrations, streamline communication, and boost student engagement

### 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

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### [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

### [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

### 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

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- 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

#### **Social Network Console Application**

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

#### **Certifications**

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

#### **Extracurricular**

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##### **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**

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- English (Fluent)
- Urdu (Native)