

# Mian Daniyal Hassan

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## Profile

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Passionate Computer Science student at the University of Lahore, with a Dean's Honor distinction (Fall 2023). Focused on AI and full-stack development, with strong skills in Python, C++, and modern frameworks. Proven ability to design practical applications, implement efficient algorithms, and build user-friendly interfaces. Eager to apply technical expertise in internships or professional roles while contributing to innovative projects.

## Education

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BS in Computer Science, University of Lahore (2023 – Present)

- Current CGPA: 3.43/4.0
- Dean's Honor (Fall 2023)
- Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Programming Fundamentals

## Experience

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### Software Developer (AI & Full Stack Projects), University of Lahore

- Developed a secure ATM Management System in C++ with authentication, balance inquiry, deposits, and withdrawals, implementing file handling and encryption for transaction safety.
- Built a YouTube Manager App using Python and Kivy with a modern dark-themed UI, real-time video search, categorization, and interactive statistics dashboard.
- Designed an Anime Recommender System with NumPy, Pandas, and Matplotlib, deployed via Streamlit to recommend anime titles based on user preferences.
- Created Mini Facebook, a social network simulation in C++ using Binary Trees, supporting friend search, mutual friends, friend suggestions, and traversal-based operations.
- Engineered a Flappy Bird clone in HTML, CSS, and JavaScript with canvas-based rendering, adaptive mobile/desktop controls, and procedural obstacle generation.

## Projects

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### AI Persona Mapper

- Developed an AI-driven personality analysis app with Streamlit to provide mobile and desktop-friendly interfaces.
- Implemented NLP rules detecting 12+ behavioral themes (work, fitness, social, productivity).
- Integrated NumPy, Pandas, and Matplotlib for robust data handling and visualization.

**Technology:** Python, Streamlit, NumPy, Pandas, Matplotlib

### Galaxy Hotel Management System

- Designed a hotel management system leveraging stacks, queues, and linked lists for efficient request handling.
- Implemented booking history with rollback and priority-based request allocation.

- Designed modular system for managing multiple hotels dynamically.

**Technology:** C++

#### **Jarvis – Voice-Controlled AI Assistant**

- Engineered a Python-based assistant integrating Selenium automation and Perplexity AI for smart replies.
- Enabled voice commands for speech synthesis, music playback, and news updates.
- Leveraged gTTS and speech libraries for natural real-time interactions.

**Technology:** Python, Selenium, gTTS

### **Skills**

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- **Programming Languages:** Python, C++, HTML
- **Frameworks & Libraries:** NumPy, Pandas, Matplotlib, Tkinter, Pygame, Streamlit, Kivy
- **Databases:** MySQL, basic NoSQL
- **Concepts:** OOP, DSA, SQL, Programming Fundamentals
- **Version Control:** Git, GitHub

### **Certifications**

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- AI for Everyone – DeepLearning.AI
- Generative AI Fundamentals Specialization – IBM
- AI Essentials Specialization – Google
- AI Fundamentals Specialization – Intel
- Machine Learning Specialization – DeepLearning.AI
- NumPy & Pandas Basics for Data Science – University of Michigan
- Introduction to SQL – University of Michigan