

# Muhammad Ali

☎ 0332-8994412 ✉ lahore173b@gmail.com 🔗 linkedin.com/in/muhammad-ali-287494216

## Career Objective

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I am a passionate and hardworking student with a background in computer science, web development, and artificial intelligence. While I am still improving my coding skills, I am highly motivated to strengthen them through hands-on projects, internships, and continuous learning. My goal is to become a skilled AI engineer who can design intelligent, efficient, and user-friendly systems that solve real-world problems and contribute to technological innovation.

## Education

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**University of Management and Technology (UMT), Lahore** *2025–2027*  
MS in Artificial Intelligence  
**Superior University, Lahore** *2021–2025*  
BS in Computer Science (BSCS)  
**Government College of Science, Wahdat Road, Lahore** *2019–2021*  
Intermediate in Computer Science (ICS)

## Experience

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**Web Development Intern — Arbisoft, Lahore** *Jan 2025*

- Contributed to front-end and back-end web projects using HTML, CSS, JavaScript, and Python-based frameworks.
- Collaborated with developers to improve performance, design, and user experience.

**Web Development Intern — Musharp, Lahore** *Jun 2024 – Dec 2024*

- Assisted in developing and maintaining responsive web applications using modern frameworks.
- Supported UI/UX design improvements and performed debugging and testing.

## Research Experience

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**Research Assistant — UMT, Lahore** *2025*

- Conducted research on artificial intelligence applications in fraud and anomaly detection.
- Analyzed deep learning and traditional machine learning models for accuracy, interpretability, and scalability.
- Contributed to data collection, literature review, and performance evaluation for a class-based AI research project.

## Research Projects

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**AI in Fraud Detection: Current Approaches and Future Directions** *UMT, Lahore — 2025*

- Conducted as part of a class research project focusing on the use of artificial intelligence techniques for fraud and anomaly detection.
- Explored deep learning and machine learning models to analyze their performance, scalability, and interpretability.
- Worked on literature review, data analysis, and identifying research gaps for future study.

## Projects

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### AI Research Paper Chatbot (RAG + LangChain + RAGGraph)

- Developed an intelligent chatbot to query academic papers using a Retrieval-Augmented Generation (RAG) pipeline.
- Integrated LangChain for contextual retrieval and RAGGraph to map relationships between papers, topics, and authors.
- Enabled graph-based reasoning for more accurate and context-aware responses.

### AI Voice Assistant (Jarvis) — Personal Project

- Developed a Python-based intelligent assistant integrating speech recognition, NLP, and computer vision.
- Implemented English-Urdu translation, Wikipedia search, web automation, and face recognition using MediaPipe & OpenCV.
- Integrated OpenAI API and pyttsx3 for voice responses with multithreading for real-time performance.

### Face Detection System

- Created a computer vision model using OpenCV and Python for real-time face detection and tracking.

### RAG Chatbot with FAISS & Ollama

- Implemented a Retrieval-Augmented Generation (RAG) chatbot using FAISS for vector search.
- Built a local knowledge retrieval pipeline integrated with Ollama for context-based responses.

## Technical Skills

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- **Programming:** Python (NumPy, Pandas, OpenCV, Scikit-learn), HTML, CSS, JavaScript
- **AI & ML:** Deep Learning, NLP, Computer Vision, Fraud Detection Models, RAG, LangChain, RAGGraph
- **Tools:** PyCharm, Jupyter, VS Code

## Soft Skills

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- Problem Solving & Logical Thinking
- Research & Analytical Skills
- Team Collaboration & Communication
- Adaptability & Quick Learning

## Languages

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- English
- Urdu

## Hobbies & Interests

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- Artificial Intelligence & Research
- Web Application Development
- Gym & Fitness
- Exploring AI Tools