

Muhammad Hamza

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ABOUT ME

I'm a Computer Science graduate focused on AI, with practical experience in ML, computer vision, and Python development. I've worked with tools like PyTorch, OpenCV, AWS, and Azure, and I also understand blockchain and Web3 from real community and ambassador roles. I enjoy building AI projects, analyzing data, and turning ideas into working systems—and I'm ready to contribute as an AI Developer, Python Developer, Data Analyst, or Community Manager.

EDUCATION AND TRAINING

BSC Computer Science (Artificial Intelligence)

Mardan, Pakistan

Abdul Wali Khan University Mardan, Pakistan

Website: <https://www.awkum.edu.pk/>

WORK EXPERIENCE

AI Tools Researcher & Developer

Oct 2024 – Present

Independent

Pakistan (Remote)

- Researched leading AI tools (ChatGPT, CursorAI, Antigravity, Claude, Gemini, Replit Agents) to improve efficiency and automation
- Built expertise in prompt engineering, workflow optimization, and AI-assisted development
- Developing VeriSure AI, an AI + Blockchain project, using Cursor, ChatGPT, and Antigravity for prototyping
- Continuously explore emerging AI technologies to enhance productivity and apply modern development practices

Community Manager

March 2023 – October 2024

Solster

Ahmedabad, India (Remote)

- Managed and moderated Solster's Telegram community, ensuring a safe and engaging environment for global users
- Responded to user queries, resolved issues, and maintained consistent communication between community and project team
- Facilitated announcements and discussions to sustain user interest and strengthen project visibility
- Monitored community sentiment and reported insights to support strategic decisions

Ambassador

Dec 2022 – July 2024

Seedify.fund

Victoria, Seychelles (Remote)

- Represented Seedify.fund, a leading incubator and launchpad for blockchain games and metaverse projects
- Supported brand ambassadorship and ambassador recruitment, growing a diverse global Web3 community
- Engaged with community members across social channels, answering questions and sharing project updates
- Contributed to community management, online moderation, and educational outreach on the blockchain ecosystem

FINAL YEAR PROJECT

AI-Based Self-Driving Car Prototype

Final Year Project — 2025

- Developed a small-scale autonomous vehicle prototype integrating computer vision, reinforcement learning, and sensor fusion
- Implemented core autonomous driving functionalities: lane detection, autonomous navigation, and obstacle avoidance
- Utilized Python, OpenCV, and PyTorch for model training, real-time object recognition, and decision-making
- Built a modular system extensible with additional sensors and advanced AI models
- Key features: CV-based lane detection, RL algorithm for navigation, sensor fusion for obstacle avoidance, real-time processing

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (Node.js), HTML, CSS

Web Technologies: HTML, CSS, REST APIs

Databases & Cloud Platforms: MySQL, AWS Cloud, Microsoft Azure

Frameworks & Tools: PyTorch, OpenCV, TensorFlow, Django, Flask, Git

AI & Software Development Skills: Training and fine-tuning AI models, sensor data processing, building full-stack web applications, deploying cloud-based solutions, integrating machine-learning models into real-world systems

PRACTICAL PROJECTS (SELF LEARNING)

- **AI Model Training:** Developed and trained deep learning models using PyTorch for image classification and object detection
- **Web Application Development:** Built web applications using Django framework with database integration and user authentication
- **Data Analysis Projects:** Performed data analysis and visualization using Python libraries (Pandas, NumPy, Matplotlib)
- **Blockchain Community Management:** Managed and grew online communities for Web3 projects, creating educational content

CERTIFICATIONS

- Python Data Structures – University of Michigan (Coursera) — Sep 2023
- Python for Data Science and AI – Coursera — Aug 2023
- Preparation for Job Interviews – Coursera — Aug 2023

ADDITIONAL COURSES

Artificial Intelligence and Machine Learning, Deep Learning and Neural Networks, Computer Vision, Data Structures and Algorithms, Web Application Development, Database Management Systems, Object-Oriented Programming, Data Analysis and Visualization

LANGUAGE SKILLS

Mother tongue: Pashto

Other languages: Urdu, English, German (A1)

REFERENCES

References available upon request.