

# 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)

Abdul Wali Khan University Mardan, Pakistan

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

Mardan, Pakistan

## 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

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**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)

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- **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

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- 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

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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

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**Mother tongue:** Pashto

**Other languages:** Urdu, English, German (A1)

## REFERENCES

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References available upon request.