

INAYAT RAHIM

Applied AI Developer | BS Artificial Intelligence

MLSA Official 📍 Islamabad, Pakistan

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🔗 Portfolio Website: <https://ai-innovator-inayat.vercel.app/>

🎯 OBJECTIVE:

To build real-time, product-focused AI solutions that solve impactful challenges in Computer Vision, Speech, and Multimodal systems using a strong foundation in core AI disciplines.

🎓 EDUCATION:

BS Artificial Intelligence, SZABIST University, Islamabad 2023 – 2027 (4th Semester) |
CGPA: 3.64/4.00

Core Courses: DSA, Design & Analysis of Algorithms, Deep Learning, ANN, Transformers, Probability & Statistics, Linear Algebra, Discrete Math, Differential Equations

🧠 SKILLS & TOOLS AI Focus:

- **AI Focus:** Computer Vision, Speech & Audio AI, Multimodal Systems.
- **Core Models:** YOLO (v5–v8), Vision Transformer (ViT), CLIP, Whisper, Wav2Vec 2.0
- **Languages/Frameworks:** Python, PyTorch, TensorFlow, OpenCV, Streamlit
- **Concepts:** Fine-Tuning, Quantization, Data Annotation, Embeddings, Inference Monitoring.
- **Tools:** Git, GitHub | **Hardware:** Arduino, IoT.

🔧 PROJECTS EXPERIENCE:

- 1) **Plant Disease Detection using Google ViT:** Trained Vision Transformer on PlantVillage dataset to classify plant diseases with 85%+ high accuracy.
- 2) **Real-Time Object Tracking:** Used Deep SORT and OpenCV with YOLOv5 for tracking multiple objects in real-time. Added face recognition with DeepFace.
- 3) **Weather-App:** Real-Time Interactive weather forecast application built using Streamlit and OpenWeatherMap API.
- 4) **Remote Controlled Arduino Car:** Designed and programmed an Arduino-based remote control car using motor driver, sensors, and wireless communication.
- 5) **IoT Water Quality Monitoring System:** Developed an IoT-based system for real-time water quality monitoring, measuring parameters like pH, turbidity, and temperature, with cloud-based analysis and alert.

INTERNSHIP:

Python Intern, Digital Empowerment Network (May–June 2024): Developed optimized Python code for AI workflows, reducing data pipeline runtime by 15% through automation and preprocessing enhancements.

Machine Learning Intern, ARCH Technology (Feb-Mar 2025): Built and fine-tuned CNN, RNN, LSTM, and Transformer models using PyTorch, improving model accuracy by 10% for real-world applications. Preprocessed datasets and collaborated on performance optimization.

COMMUNITY & LEADERSHIP:

Microsoft Learn Student Ambassador (MLSA) — Official Member mentoring students in AI and cloud technologies.

Alumni: Hope to Skills AI Advanced Program.

Introduction to Deep Learning (2024, MIT)

Active Participant: Active in developer sessions, events, conferences & Microsoft AI Competitions & hackathons.

Reference: Available upon request.