KHURRAM SHEHZAD

Electrical Engineer

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City Wan Bhachran ,Mianwali

SUMMARY

Final-year Electrical Engineering student with a strong foundation in machine learning, computer vision, and embedded systems. Skilled in Python, TensorFlow, OpenCV, and Streamlit with hands-on experience in developing real-time AI applications. Completed end-to-end projects including bacterial image classification, facial recognition systems, and road segmentation tools. Quick learner with solid problem-solving skills, eager to contribute to impactful AI-driven solutions.

EDUCATION

Bachelor of Science in Electrical Engineering

Namal University ,Mianwali 2021 - 2025

- Current CGPA: 3.18

COURSES

- MACHINE LEARNING
- DIGITAL IMAGE PROCESSING
- EMBEDDED SYSTEMS
- CONTROL SYSTEMS
- SIGNALS AND SYSTEMS
- ELECTRONIC DEVICES & CIRCUITS
- POWER ELECTRONICS
- DIGITAL LOGIC DESIGN (DLD)

SKILLS

Technical Skills:

- Languages: Python, C/C++, MATLAB
- ML & AI: TensorFlow, scikit-learn, OpenCV, Streamlit
- Embedded & Circuits: Arduino, AVR, Proteus, ETAP
- Tools: Git, AutoCAD, PyQt5
- Exploring: Hugging Face, OpenAI, LangChain

Professional Skills:

- Strong Analytical & Problem-Solving Abilities
- Effective Communication & Teamwork

CERTIFICATIONS

- Hifz-e-Quran – Jamia Qamur-ul-Madina
- Soft Skills Development Program – Punjab Educational Endowment Fund (PEEF)
- Robotics Competition Participant – Namal Tech Expo, Namal University
- Robotics Competition Participant – AI Innofest, Bahria University

PROFESSIONAL EXPERIENCE

Community Liaison Intern Mar 2025-April 2025

Centre for Water Informatics & Technology (WIT), LUMS – Lahore

- Collected and documented data from local farmers in my community for a research project on Namal Dam.
- Organized a game-based learning session to promote sustainable water use practices.
- Acted as a communication bridge between the LUMS research team and local residents.

Intern – Electronics & Textile Systems Jul 2024 – Sep 2024

AL-Makkah Embroidery Textile – Faisalabad

- Assisted in the operation and maintenance of automated embroidery machines.
- Supported troubleshooting tasks and basic repairs of electronic textile systems.
- Gained practical experience in industrial electronics and teamwork in a factory environment.

PROJECTS

Smart Bacterial Colony Classification System:

Built a CNN-based image classification system using TensorFlow and OpenCV to identify bacterial colonies. Deployed as a real-time web app using Streamlit with integrated environmental analysis.

Facial Recognition Attendance System:

Developed a real-time attendance system using a modified ResNet50 model and webcam input. Deployed with Streamlit for an interactive interface and automatic face-based logging.

🔗 **View More Projects:** https://github.com/khurram786Sh