

# MUHAMMAD AKRAM



BS Electrical Engineer  
2021-2025

## About Me

I am a passionate Electrical Engineering graduate with hands-on experience in both core engineering domains and emerging technologies. My academic journey has equipped me with a solid foundation in power systems, electronics, embedded systems, and circuit design, while my curiosity led me to explore cutting-edge fields like Machine Learning, IoT, and web/mobile development. I thrive on solving real-world problems—whether it's designing a buck-boost converter or building an AI-powered application. With a strong work ethic, a fast learning curve, and a multidisciplinary mindset, I aim to contribute meaningfully to innovative projects in both traditional and tech-forward industries.



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## EDUCATION

**BS Electrical Engineering (PEC LEVEL-II (Washington Accord)) Namal University Mianwali**

08/2021 - 08/2025,

Mianwali, Pakistan

Current CGPA : 3.3

## COURSES

- Machine Learning and Deep learning
- IOT and Wireless Communication
- Data Structures & Algorithms
- Introduction to power Engineering
- Power Electronics
- Data Base
- AI for Everyone – Coursera, DeepLearning.AI (Jan 2025)
- HTML – University of Michigan (Jun 2024)
- Python Basics – University of Michigan
- Deep Learning Applications for Computer Vision – University of Colorado Boulder (In Progress)
- Introduction to Deep Learning and Neural Networks with Keras – IBM (In Progress)  
(Certificates are uploaded to LinkedIn)

## SKILLS

### Technical Skills

#### Programming Languages

- Python (Good)
- C++ (Intermediate)
- HTML, CSS, JavaScript (Basic)
- Object-Oriented Programming (OOP)

#### Electrical & Simulation Tools

- MATLAB & Simulink
- Proteus, Verilog, ModelSim, AutoCAD
- Cisco Packet Tracer
- PCB Design Tools

#### AI/ML Frameworks & Tools

- TensorFlow, PyTorch (Basic)
- Google Colab, Kaggle
- OpenCV, Streamlit
- Jupyter Notebook, Visual Studio Code

#### ML & Deep Learning Models

- ResNet50, YOLOv8, EfficientNetB3
- RNN, KNN, K-Means, FaceNet
- Data Preprocessing & Analysis
- GUI Development & Web App Integration (Streamlit)
- Different Android Mobile apps

### Soft Skills

- Problem Solving & Critical Thinking
- Fast Learner & Adaptable
- Teamwork & Independent Work
- Time Management
- Professional Communication
- Strong Work Ethic

## EXPERIENCE

- Working in **AI and Big data Centre** at Namal University Mianwali 2023- currently
- Recommendation : tassadaq.hussain@namal.edu.pk

## PROJECTS

- **FYP-Real Time Bacterial Colony Identification system using visual Images and AI:** Classifying 12 colony types using YOLOv8/ResNet with web and mobile app integration.
- **Real Time Smart Attendance System:** ResNet50-based facial recognition system with 93% accuracy **using Streamlit** (awarded best project of the course)
- **Image Noise Reduction:** MATLAB project for noise estimation, reduction, and manipulation with GUI.
- **Weather Prediction:** Forecasting using **RNN** on Tensor flow and PyTorch.
- **Natural Scene Segmentation:** HSV and K-means-based segmentation of Namal lake images with **Streamlit app**.
- Made Three **Android Mobile Apps** Using HTML , Java and CSS with the help of AI using Webintoapp and Tinny host
- **Robotic Car** using Atmega328P.
- **Designing the network structure** of NAMAL University on Packet Tracer using **CISCO Packet Tracer**