



Muhammad Usman Khanzada

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EDUCATION

M.Sc. Applied Data Science, University of Göttingen

Oct 2024 – present | Göttingen, Germany

- **CGPA:** 2.1
- **Courses:** Statistical Inference, High Performance Data Analytics, Linear Model, Data Management for Data Science, German Language A1.1

BE. Electrical Engineering,

National University of Sciences and Technology

Oct 2020 – Jun 2024 | Islamabad, Pakistan

- **CGPA:** 3.44/4.0 (American Grading System)
1.8/4.0 (German Grading System)
- **Elective courses:** Data Structures & Algorithms, Computer Vision, Machine Learning, Robotics.
- **Minor Courses:** Artificial Intelligence, German Language (Level 1 and 2)

PROFESSIONAL EXPERIENCE

Vision Architech, Artificial Intelligence Intern

Jul 2024 – Aug 2024 | Remote

- Contributed to an AI-powered analytics platform by designing SQL database schemas and preparing datasets for model training and evaluation using NLP and LLMs.

Optimization and Machine Learning Lab,

Machine Learning intern

Jun 2023 – Sep 2023 | Islamabad, Pakistan

- Created and processed custom image dataset for my final year project and implemented CNN-based object detection.

RADWI, National Science and Technology Park,

Android Developer intern

Jun 2023 – Sep 2023 | Islamabad, Pakistan

- Developed a responsive Android app in Kotlin with API integration, performance optimization, and embedded machine learning models.

SKILLS

Programming Languages: C/C++, Python, R, Verilog, Kotlin, SQL.

Data Science & Machine Learning: Feature Reduction, Predictive Modeling, PyTorch, TensorFlow (Efficientnet, Resnet), Keras, SciPy, PySpark, OpenCV, Autoencoders, Librosa

Softwares: Jupyter Notebook, MATLAB, Visual Studio, Linux (Kali/Ubuntu), UNITY, Arduino IDE, Proteus

Soft Skills: Team Leadership, Problem Solving, Dedication to complete a task, Curiosity and willingness to learn.

PROJECTS

AI-Driven Smart Shopping Cart, Final Year Project

- Developed a smart shopping app with barcode scanning, ML models, and weight sensor integration for theft protection.

CIFAR-100 Scratch and Transfer Learning, ML Course

- Achieved 71.2% accuracy on CIFAR-100 via scratch training, surpassing the 67% benchmark; reached 86% using transfer learning with EfficientNetB0 and ImageNet weights.

Fruit-Picking Robot Simulation, Robotics Course

- Developed a fruit-picking robot simulation in Webots, using Python with YOLOv8 for fruit detection.

TinyML on AVR, Microprocessor Systems Course

- Developed a system that filters noise, calibrates temperature sensors with a machine learning model, and displays the temperature on a PC and seven-segment display.

CERTIFICATES

Machine Learning Specialization

Completed 3/3 courses offered by Stanford Online.

Meta Android Developer Professional Certificate

Completed 3/12 courses of this professional certificate.

Google Cybersecurity Professional Certificate

Completed 4/8 courses of this professional certificate.

Excel Skill for Business Essential

Completed this course offered by Macquarie University.

LANGUAGES

Urdu



English



German

