Riaz Ud Din
Electrical Engineer

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Electrical Engineer passionate about data analytics, database design, and development. Proficient in SQL with hands-on experience in building and managing structured data systems. Eager to advance into data science and analytics, combining analytical skills and technical expertise to drive impactful insights.

EDUCATION

BS Electrical Engineering
Namal University Mianwali

11/2021 - Present   *3.01 / 4.00*

Courses
- Database Engineering
- Machine Learning
- Internet of Things
- Digital Image Processing

PROJECTS

Smart Hydroponics: IoT & ML-Driven Sustainable Farming (FYP) (10/2024 - Present)
- Developed a Smart Hydroponic Farming System using IoT and ML for real-time optimization, automating nutrient delivery to improve yield and support sustainable agriculture (UN SDGs 2, 9, 11, 12, 13).

Pakistan Electoral Database (04/2025 - Present)
- Designed PakElectoDB, a relational database system for analyzing Pakistan's National Election data (1970–2018) using ER modeling, SQL in Oracle, and a Python-based GUI for user interaction.

Lung Cancer Detection using CNN and EfficientNetB3 (12/2024 - 01/2025)
- Developed a CNN-based lung cancer detection model using EfficientNetB3, achieving 99% accuracy on 15000 medical images data with TensorFlow and Keras.

Digital Images Noise Detection & Removal (11/2024 - 01/2925)
- Developed a digital image processing system for multi-noise detection and removal using statistical analysis and filtering, with a PyQt5 GUI for efficient visualization and control.

WORK EXPERIENCE

Event Manager
Namal Environmental Society

11/2023 - Present   *Mianwali, Pakistan*

Achievements/Tasks
- Managed events incuding World Earth Day, Lakeshore Cleanliness Drive, Sinage & Surface Markings for Namal Dam, and Waste Management Drive.

Decor Head
IEEE Namal Student Branch

11/2021 - 07/2023   *Mianwali, Pakistan*

Achievements/Tasks
- Executed decor for events including Speed Programming, E-Gaming, CV Writing, and UI/UX Design workshops.

SKILLS

SQL · Python · Power BI · Excel · MATLAB · VS Code · MySQL · Matplotlib · Numpy · Scikit-learn

CERTIFICATES

Data Analysis and Business Intelligence with Python & SQL (04/2025 - Present)
Udemy

Ask Questions to Make Data-Driven Decisions (Google) (02/2025 - 04/2025)
Coursera

Foundations: Data, Data, Everywhere (Google) (11/2024 - 12/2024)
Coursera

Namal Tech Expo 2025 (Participation) (04/2025)
FYDP Exhibition (Namal University Mianwali)

Namal Tech Expo 2024 (Participation) (04/2024)
Robotics Competition (Namal University Mianwali)

LANGUAGES

English
Full Professional Proficiency

Urdu
Native or Bilingual Proficiency

Pashto
Native or Bilingual Proficiency

INTERESTS

Data Analytics · Data Science · Machine Learning · Report Reading