



Usman Sarwar

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● ABOUT ME

Application Analyst with strong background in enterprise systems, data analytics, and intelligent automation, currently contributing to AI-ready transformation initiatives at Barrick Reko Diq. Experienced in building data-driven solutions, automation frameworks, and machine learning models, with growing focus on enterprise AI adoption, predictive analytics, and business optimization. Skilled in bridging business needs with technical solutions and enabling data-informed decision-making across large-scale operations.

● WORK EXPERIENCE

APPLICATION ANALYST – AI & AUTOMATION INITIATIVES – BARRICK MINING CORPORATION

– 31 May 2025 – Current – REKO DIQ, PAKISTAN

AI, Data & Automation Leadership

- Driving **data-driven transformation initiatives** across Logistics, Operations, HR, and Finance by identifying opportunities for **AI/ML and advanced analytics use cases**.
- Collaborating with business stakeholders to translate operational challenges into **analytics and intelligent automation solutions**.
- Contributing to the **foundation of enterprise AI adoption** by structuring data pipelines, reporting layers, and automation frameworks.

Enterprise AI Use Case Development (Practical Exposure)

- Designed and implemented **data-driven decision support systems** for:
 - Yard management and truck overstay analysis
 - Logistics performance monitoring
 - Operational KPI tracking across departments
- Established groundwork for **predictive analytics use cases** such as:
 - Truck delay prediction
 - Resource utilization optimization
 - Operational anomaly detection

Data Engineering & Analytics Platform Enablement

- Built and optimized **centralized reporting and analytics layers** using SQL Server and Power BI, enabling near real-time insights.
- Developed automated data workflows using Python and Power Automate to ensure **clean, structured, and analysis-ready datasets**.
- Contributed toward **single source of truth initiatives**, aligning enterprise data for future AI and advanced analytics applications.

Intelligent Automation & Process Optimization

- Delivered **enterprise-scale intelligent automation solutions** using Python, Power Automate, and PowerApps, reducing manual workload and improving process efficiency.
- Integrated automation across ITSM, Microsoft 365, and enterprise applications to support **scalable, rule-based and semi-intelligent workflows**.

Cross-Functional AI Enablement

- Worked closely with **IT, Logistics, HSE, and Operations teams** to embed analytics into daily decision-making processes.
- Acted as a bridge between **technical teams and business users**, ensuring adoption of data-driven systems.

Governance, Security & Data Compliance

- Ensured **data access governance, identity management, and compliance** using SailPoint and Active Directory.
- Maintained structured access controls aligned with enterprise security policies — supporting future AI governance frameworks.

Technology Stack

Python | SQL Server | Power BI | Power Automate | PowerApps | Azure | Active Directory | SailPoint | Halo ITSM

APPLICATION SOFTWARE DEVELOPER – TECH SOLUTION CONSULTANCY – Jan 2017 – Jun 2025 – QUETTA, PAKISTAN

- Coding and Development: Expertise in ASP.NET, .NET, SQL Server, Python, Java, C#, C++, and JavaScript for developing web, desktop, and enterprise applications.
- Problem Solving: Strong analytical skills to debug, optimize, and enhance software solutions using machine learning, data science, and web development frameworks.
- Project Management: Experience in managing full software development lifecycles (SDLC), from requirement gathering to deployment, using tools like Azure DevOps and Git.
- Collaboration and Communication: Effective team coordination using Agile methodologies, Scrum frameworks, and DevOps practices to ensure seamless project execution.
- Code Review and Quality Assurance: Conducting code reviews, performance optimizations, and security audits using unit testing, CI/CD pipelines, and best coding practices.

O LEVEL COMPUTER SCIENCE TEACHER – THE CITY SCHOOL – 1 Jun 2024 – Current – QUETTA, PAKISTAN

IT HEAD – ABDALI BABA SUPERMARKET – 1 Mar 2023 – 1 Jun 2024 – QUETTA, PAKISTAN

Maintenance of Software
Maintenance of Hardware
Maintenance of Network
Maintenance of Stock Audit
Digital Marketing
Handling Ecommerce Store

EDUCATION AND TRAINING

3 MAR 2012 – 6 DEC 2016 Quetta, Pakistan
BS(IT) BUIITEMS

Website <https://www.buitms.edu.pk/> | **Field of study** Information and Communication Technologies | **Final grade** 3.172

1 FEB 2010 – 1 FEB 2012 Quetta, Pakistan
ICS Govt College Of Commerce

1 JAN 2008 – 1 JAN 2010 Quetta, Pakistan
METRIC Tameer-e-nau Public School Quetta

LANGUAGE SKILLS

Mother tongue(s): **URDU**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
PANJABI; PUNJABI	C1	A1	C1	A2	A1
PERSIAN	B1	A2	A2	A2	A1
URDU	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

Microsoft Office | Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) | Programming with ASP.NET | Analytical skills | Programming Languages: Java, C, Kotlin, C#, C++, LINQ | Web Design and Web Applications | Desktop application development | Machine Learning, NLP | Machine Learning: Python, R | Machine Learning | Critical thinking | SQL and MS-SQL | Data Science: Machine Learning, Data Analysis, Data Exploration, Data Wrangling, Data Visualization | Good listener and communicator | Team-work oriented | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Data Visualization Tableau (Good Standing)

● PROJECTS

AI & Machine Learning Projects

Developed multiple **machine learning models** including:

- Skin burn & bruise detection (computer vision)
- Plant disease detection (agriculture ML)
- Emotion detection (real-time analytics)

Built **AI-powered systems** for:

- Number plate recognition
- Security object detection (gun detection)

Designed intelligent IoT + AI integrations for automation and monitoring use cases. Write here the description

12 OCT 2020 – 1 FEB 2021

PETRS

Developed a professional website PETRS. Implemented features such as an online testing portal (<https://portal.petr.com.pk>) with a dashboard system for testing services, including data import, auto question paper generation, roll number slip generation, SMS notifications, and biometric verification with auto attendance.

Link <https://www.petr.com.pk/>

1 MAY 2018 – 1 JAN 2020

BUIEMS Evaluation System

Automated the evaluation system for BUIEMS, providing an efficient file system for ORIC BUIEMS (<http://oric-buitem.edu.pk>). Implemented auto-report generation features.

Link <http://buitemssurveys.com>

School Management System

School Management System
for

PEARL SATELLITE EDUCATIONAL INSTITUTE (PSEI), Sound Foundation School Model High School, Quetta
Cliff House School,

1 JAN 2021 – 1 JAN 2022

Hospital Centralize System

Hospital: Darul Shifa Imam Khomeini Hospital

Established a centralized system for hospital management, enhancing efficiency in patient records, appointments, and internal communication.

Online Business Websites

- <https://www.ziaratdryfruit.com>
- <https://hotchpotchgala.com>
- <https://dolphinonlinestore.com.pk>
- <https://www.designersconrner.com>
- <https://www.thebiscuitsociety.com>
- <https://abdalibabafafoods.com.pk/>
- <https://www.chocolocosweets.nl/>
- <https://divinedelight.pk/>
- <https://www.a1dreamerz.com/>

Link <https://abdalibabafafoods.com.pk/>

1 JAN 2017 – 1 JAN 2024

Point of Sale System

- General Store
- Bakery
- Distributors
- Medical Store

Implemented point of sale systems for various businesses, improving transaction processes and inventory tracking.

1 JAN 2017 – 1 JAN 2022

Games

- Write here the description...Game for autism kids treatment
- AR-Based Kids Learning Game
- AR-Based Car Racing
- Ar-Based Car Drive Teaching Game
- Ar-Based Endless Runner
- The Amazing Boy (Merger of 8-bit & 32-bit Graphics)
- Urdu Ustad (Urdu Learning Game)

Created various games targeting different audiences, including educational games for kids and entertainment-focused games.

1 JAN 2017 – 1 JAN 2024

IOT Home Automation

Developed an IoT-based home automation system, enabling users to control various devices remotely through a centralized platform.

Gas Leakage System with Automatic Alarm and Switching System

Implemented a gas leakage detection system with an automatic alarm and device switching mechanism, ensuring prompt response to potential safety hazards.

Piezo Sensor Energy Generator

Engineered a piezo sensor energy generator, harnessing mechanical vibrations to generate electrical energy for low-power applications.

SMS Chat AI Portal (Using GSM Module)

Created an SMS-based chat portal integrated with an AI system using a GSM module, facilitating automated communication and responses.

Skin Burn/Bruises Detection Model (ML)

Developed a machine learning model for real-time detection of skin burns and bruises, aiding in timely medical intervention.

Plant Leaf Disease Detection System (ML)

Implemented a machine learning model for the early detection of diseases in plant leaves, contributing to precision agriculture.

Gun Detection Using Image Processing

Engineered an image processing system for real-time detection of guns, enhancing security measures for societies and schools.

Car Number Plate Scanning Using Image Processing

Developed a system for automatic car number plate scanning using image processing, suitable for applications such as parking management.

Real-Time Emotion Detection System for School

Created a real-time emotion detection system for schools, helping educators understand and respond to students' emotional states.

Real-Time Dizziness Detection for Car Drivers

Engineered a real-time dizziness detection system for car drivers, utilizing sensors to prevent accidents by alerting drivers in case of potential dizziness.

IOT Devices Control from Hand Gestures

Developed a system enabling the control of IoT devices through hand gestures, providing an intuitive and hands-free user interface.

ERP System Development

Led the design and development of a comprehensive ERP system to streamline business processes and enhance organizational efficiency.

Link <https://pkmlc.com/>