

Hamdan Abdollah Khan

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Profile

Data Scientist and **Analyst** capable of working complex data into actionable insights. With a keen, passionate interest in the productive uses of **big data** and **ML/AI**, and a desire to make a successful contribution in a dynamic setting using academic knowledge in dealing with challenging projects.

Education

Bachelors of Science in Data Science <i>Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)</i>	09/2021 – 06/2025 Topi, Swabi
Higher Secondary School Certificate <i>Fazaia Model Inter College Mushaf</i> • Grades: A1 (933/1100)	2019 – 2021 Sargodha
Secondary School Certificate <i>Fazaia Inter College Minhas</i> • Grades: A1 (914/1100)	2017 – 2019 Kamra

Professional Experience

Data Analyst Intern <i>Virtual World (ibex.co)</i> • Implemented and streamlined data pipelines by dockerizing the architecture to accelerate deployment efficiency. • Designed and developed a multi-faceted Employee Retention Dashboard using Metabase and Superset, providing management with analyzed and enhanced analytical data. • Supervised by Senior Data Scientist, learning the industry best practices in BI reporting and pipelines.	07/2024 – 09/2024 Karachi, Pakistan
3D Developer / Artist (Volunteer) <i>BenchMark Sims</i> • Collaborated with an interdisciplinary and multinational team to envision and develop a new set of tooling for aircraft simulation. • Investigated and learned 3D Modelling techniques to achieve precise aircraft recreation and delivered high-fidelity models. • Participated in beta-testing for public releases of Falcon BMS, identifying and tackling issues to improve product quality.	08/2023 – Present Remote

Projects

Bus Ticket Reservation System

- Developed a reservation system that secured passenger details and stored them, and randomly produced bus rides, employing extensive use of DBMS concepts.
- Achieved desired results using resources such as SQL, Python, and Excel.

AirBnB Market Analysis

- Presented a comprehensive analysis of the AirBnB market using Power BI, focusing on designing a client-based dashboard that delivered informative insights.
- Examined and catalogued data using Excel, PowerBI, and Python.

PakWheels ETL Pipeline

- Created and containerized an entire ETL pipeline using Docker Compose to ensure reproducible services across end-systems.
- Transformed raw data with Apache Spark to establish an analytical-ready Data Lake output.
- Planned data movement with the help of DAGs and introduced the Parquet format to streamline the process of data querying and storage.

Data Driven State of Health Estimation of Lithium Ion Cells in EVs - Final Year Project

- Developed a predictive analytics dashboard webapp based on analyzed data of Lithium-ion Battery State of Health (SoH) important to EV reliability.
- Applied Machine Learning on real-time sensor data (Voltage, Temp) and past performance to forecast complex trends of battery degradation.
- Provided predictive health indicators, which enhanced the analysis of the safety and the lifetime of battery systems.
- Utilized a tech stack including React, Python, VSCode, Arduino, and FastAPI.

Awards

First Position Regionally - Punjab

2016

ICATS Science Contest

Certificates

- Certificate of Appreciation - Career Fair 2022 GIKI

Skills

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|--|----------|---------------------------|------------|
| • R | • Python | • SQL | • HTML/CSS |
| • PowerBI / Looker /
Metabase /
Superset | • Docker | • Data
Mining/Analysis | • C++ |
| • Team Player | | | |

Interests

Golf | Sim Development | Swimming