

# Hamdan Abdollah Khan

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🐙 <https://github.com/hamdankhan1208>

## 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

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

## Professional Experience

<b>Data Analyst Intern</b> <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
<b>3D Developer / Artist (Volunteer)</b> <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

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### 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

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### First Position Regionally - Punjab

2016

ICATS Science Contest

## Certificates

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- Certificate of Appreciation - Career Fair 2022 GIKI

## Skills

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

## Interests

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Golf | Sim Development | Swimming