Data Analytics

The Data Analytics module focuses on extracting meaningful insights from raw data. Participants will work with datasets to identify trends, perform analysis, and visualise data-driven conclusions. This module highlights analytical thinking, interpretation skills, and practical decision-making based on data.

REGISTRATION - PER TEAM MEMBER	
Early bird	Normal
PKR 500	PKR 1000
TEAM SIZE	1-2 Members

PRIZE POOL	
TOTAL - PKR 35,000	
Winner	PKR 25,000
Runner Up	PKR 10,000

Data Analytics Guidelines

Competition Overview:

- Each team would be given a theme, and they would need to implement their ideas to solve that problem with a web application
- The theme would be announced to all the participants when the competition starts.
- The duration of the competition is about 24 hours (including presentations)
- Teams must bring their own machines.
- The Internet/Extensions will be provided; however, participants are requested to bring their own internet to avoid any sort of inconvenience.

Competition Rules:

- Teams are expected to implement proper Data Engineering concepts; simply copying from ChatGPT or other AI tools without understanding or adaptation will be penalized.
- Functionality will be tested in a 10–15-minute evaluation of the presentation to the judges.
- Participants are required to be there at the time of evaluation. Failure to appear before the judge at the time of evaluation will automatically disqualify the project from the competition.
- Teams should bring their own converters for the projectors so that their presentations can go smoothly.
- The decision of the Judges will be final and cannot be challenged. If any team keeps arguing with the host team on this matter, they will be disqualified.
- All work must be original and completed exclusively by the team members.
- Plagiarism of all kinds is strictly prohibited.
- No deadline extensions will be provided, regardless of technical issues

Competition Format:

- Task 1: Given a scenario, you will be required to design a star schema for the OLTP dataset, perform EDA and justify your design choices.
- Task 2: You will be required to build a pipeline using Astro CLI (Airflow) for data ingestion from S3, Snowflake for DWH storage, and Power BI for a simple dashboard, ensuring the code is modular, clean, and well-documented.

Evaluation Criteria:

- Your submission will be evaluated based on the following
  Task 1: Star schema design, EDA Quality, Documentation
  Task 2: Pipeline Functionality, Code Quality, Power BI Dashboard, Presentation