FINAL PROJECT

<u>**Title :**</u> Analysis on Formula1 Race

Formula One (more commonly known as Formula 1 or F1) is the highest class of international racing for open-wheel single-seater formula racing cars sanctioned by the FIA - Fédération Internationale de l'Automobile

<u>**Names and Roles :**</u>

Deepthi Reddy Kallam would be responsible for data ingestion and applying schema for the ingested data, making sure that the ingested data have audit columns and storing them in a columnar format.

Chandra Sekhar Akkandra is responsible for analysing the ingested data via SQL and ensuring that the ingestion logic used can handle the incremental load.

Bhavana Navari is responsible for creating a new table by joining the key information required for reporting and analysis and making sure that the transformed tables have audit columns and storing them in a columnar format

<u>**Motivation/Purpose :**</u>

The purpose of the project is to find the insights on Driver standings, Constructor standings, Dominant Drivers and Dominant Teams.

Teams can use the data gained from ***driver standings*** research to make strategic decisions related to driver selection, training, and race strategies.

Teams can use the information gained from ***constructor standings*** research to make strategic decisions concerning car design, engineering, and team management.

Teams can use the insights gained from ***dominating driver*** analysis to make strategic decisions involving driver selection, training, and racing strategies.

The insights from ***dominant teams*** analysis can help identify team culture, managerial techniques, and engineering practices that have contributed to dominating teams' success, as well as their strengths and flaws which can be used by the teams to make strategic decisions.

Therefore, teams can obtain a competitive advantage in Formula 1 racing by analysing driver standings, constructor standings, dominating drivers, and

dominant teams. Teams can make data-driven decisions that improve performance, optimize resources, and increase the possibility of winning races and championships by understanding the factors that lead to success in the sport.

Tools used :

ADF – Orchestration

ADB/Pyspark – data Processing

Power BI- Data Visualization

Cloud Platform : MS Azure

Team Name : Cloud Project

Names : Deepthi Reddy Kallam(16341887)

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