

# Analysis of Last Decade of Formula1

(The fall of Ferrari, Mercedes Dominance and the clash of two F1 GOATs)

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### Our Research Interest:

- The performance of Scuderia Ferrari (the longest standing team in F1 History) in the last decade of the sport
- The Dominance of Mercedes in the Hybrid Era
- Driver Analysis of Sebastian Vettel and Lewis Hamilton (two GOATs of the sport) as compared to their peers

### Data Source for the analysis (check out the data source by clicking on the link [here](#)):

- The data is being sourced from Kaggle
- The data set consists of all information on the Formula1 races, drivers, constructors, qualifying, circuits, lap times, pit stops, championship till the latest season (2020)
- Some of the important columns across data sets are: raceid, driverid, #stop, #lap, #wins, position, # points, # constructorid
- All in all there are 13 csv files with 94 columns and 500K rows

### Questions that we will answer through our analysis:

- How was the championship performance of Scuderia Ferrari in the current decade (2011 - 2020) vs the pervious decade (2001 – 2010) ?
- How did Scuderia Ferrari perform as compared to other championship winning team ?
- What was the point gap between Mercedes and other constructors during the last decade ?
- How has the performance of Sebastian Vettel and Lewis Hamilton been in the last decade of the sport (points, races won, poles) ?

### Data Preparation steps that we will be undertaking:

- Aggregating
- Subsetting
- Joining
- Missing Value Treatment

***"Races are won at the track. Championships are won at the factory." - Mercedes (2019)***