



University of Minnesota



### What is Formula One?



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#### What is Formula One?



- Highest class auto racing by FIA
  - (Federation Internationale de l'Automobile)
- 0 to 160 kph (100mph) back to 0 in 4 seconds
- Top speed over 370 kph (230 mph)



### Why Are We Interested?



- One of the most watched sports in the world
- Billions of dollars at stake
- Potential for:
  - Sponsoring
  - Advertising
  - Betting





# **DATA**

## Speed Predictors: Driver Attributes



- Driver attributes
  - Age
  - Weight
  - Height
  - Nationality
  - Dependents
  - Qualifying position
  - Rank before the race



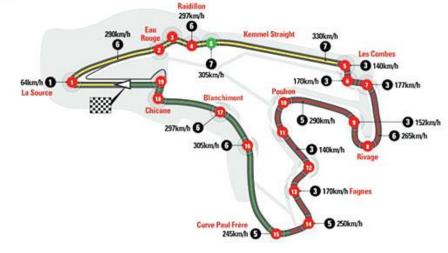
# Speed Predictors:

#### Race Track and Team Attributes

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- Track
  - Location
  - Difficultly



- Team
  - Car manufacturer
  - Score





# **ANALYSIS RESULTS**



- Number of turns
  - -0.08 kph for each
  - +1 turn

- Track Location
  - North America is the fastest



## Relevant Speed Predictors

Driver Grid position





 Team previous year performance



# FINAL CONCLUSION

#### Conclusion



Businesses that wants to associate itself with speed now can make data driven decisions while investing in F1







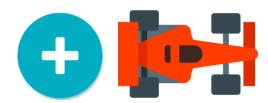
Sponsoring

Advertising

Betting

#### Limitations





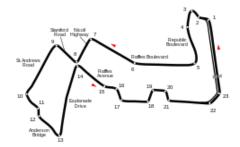
**New Drivers** 



Change of Rules



**New Continents** 



Extreme track modification

### References



• <a href="https://www.formula1.com/">https://www.formula1.com/</a>