

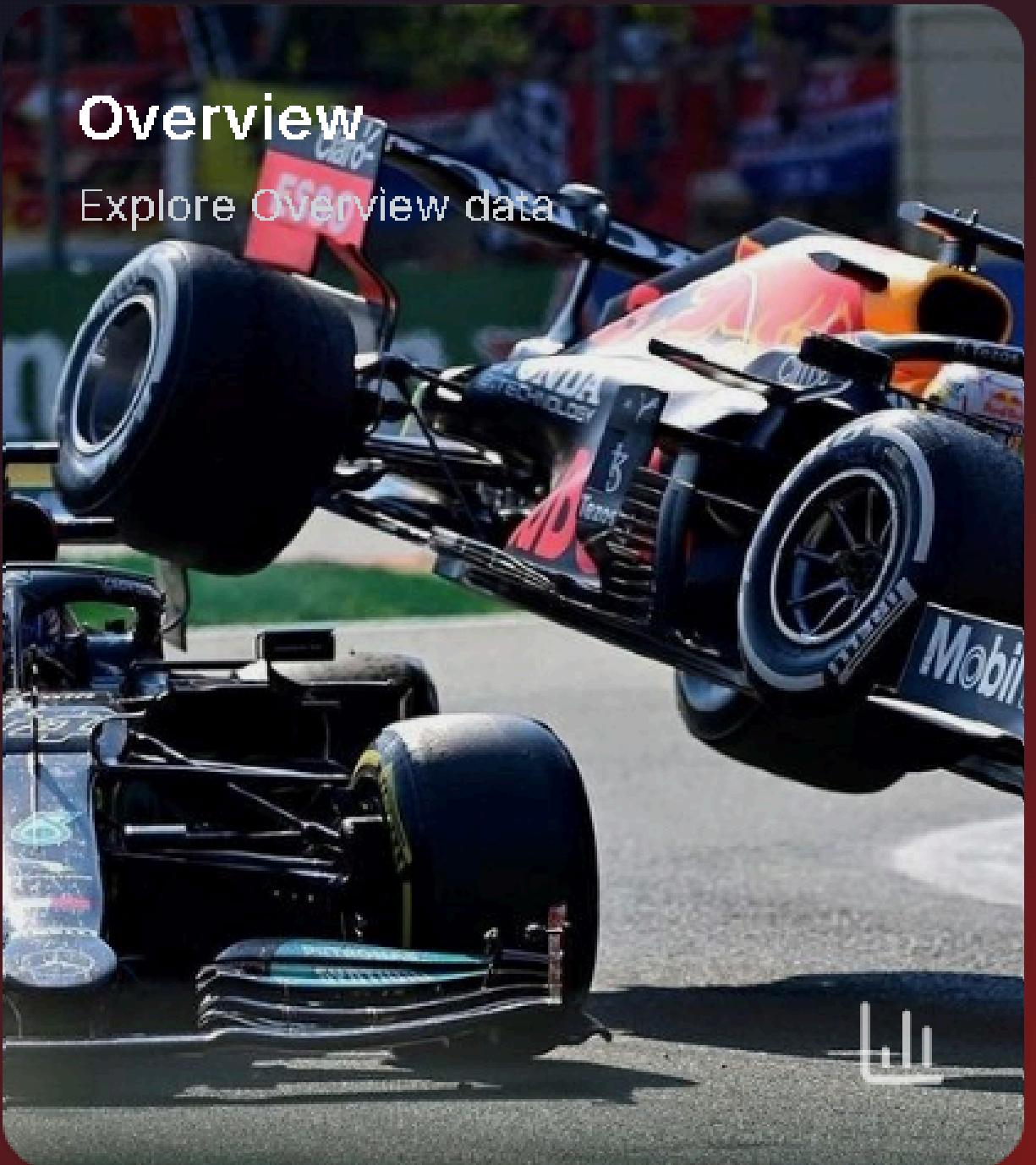


# FORMULA ONE

## ANALYSIS DASHBOARD

## Overview

Explore Overview data



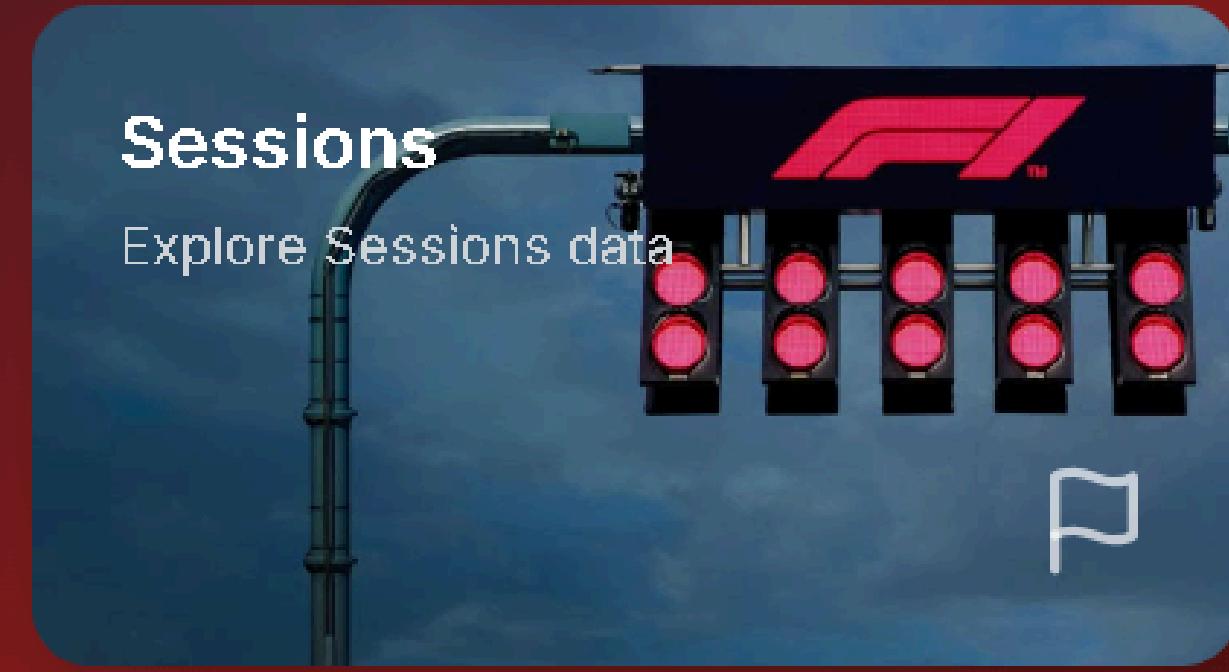
## Meetings

Explore Meetings data



## Sessions

Explore Sessions data



## Records

Explore Records data



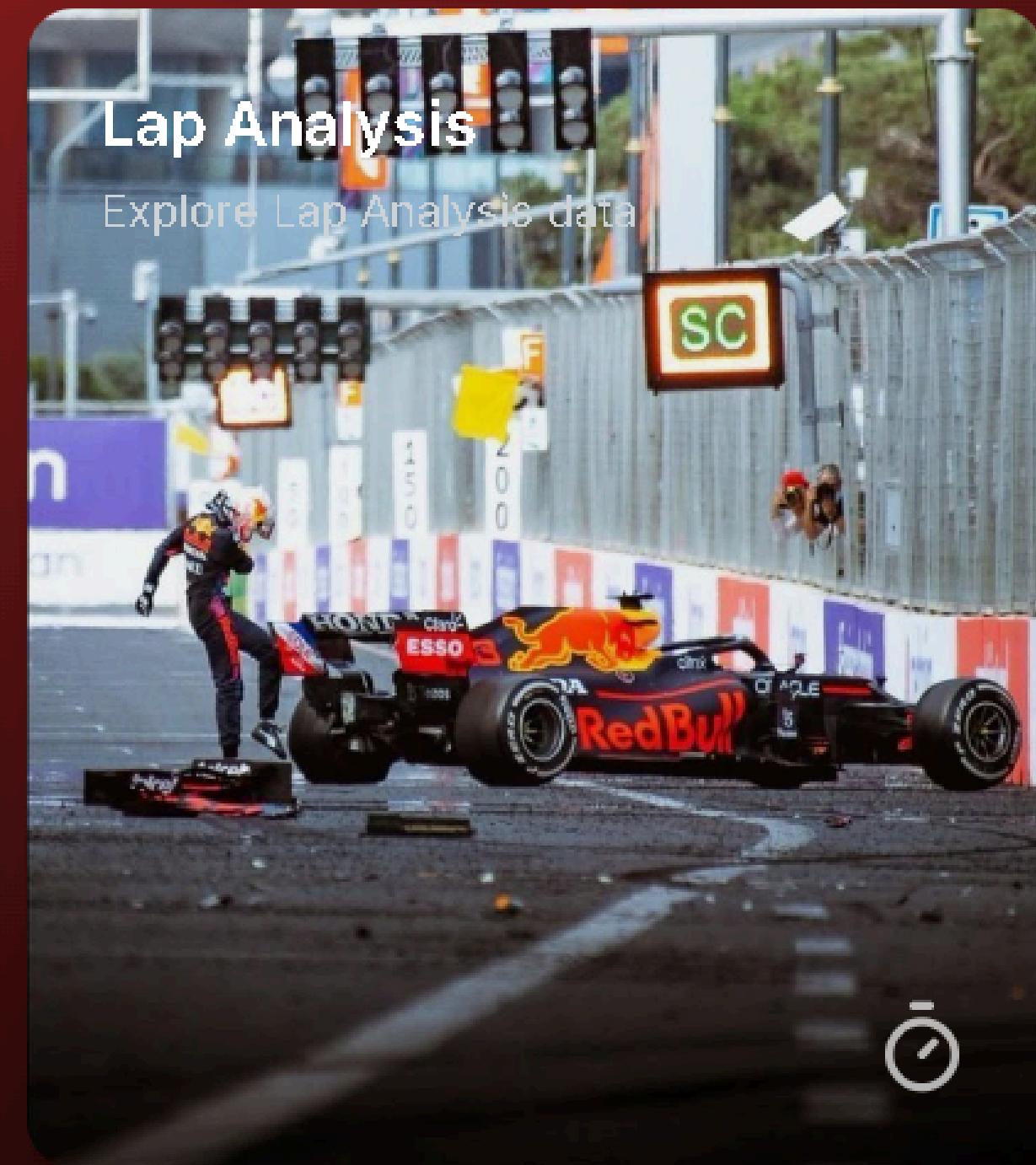
## Comparison

Explore Comparison data



## Lap Analysis

Explore Lap Analysis data



# F1 Analysis Dashboard

Comprehensive Formula 1 data analysis and insights

API Status: Connected

62 Total Meetings

Total Meetings

62

Race weekends analyzed

Sessions This Season

53

In 2025

Drivers This Season

28

In 2025

Data Source

OpenF1

Post-session historical data

## Recent Meetings

Belgian Grand Prix

Spa-Francorchamps, Belgium

2025

British Grand Prix

Silverstone, United Kingdom

2025

Austrian Grand Prix

Spielberg, Austria

2025

Canadian Grand Prix

Montréal, Canada

2025

# OVERVIEW

- The goal of this project was to create a data-rich, interactive platform for F1 fans who want to go deeper than the standard broadcast graphics.
- This is a full-stack application, featuring a Python Flask backend that serves a comprehensive MongoDB database to a modern Next.js and TypeScript frontend.
- The dashboard provides a high-level overview of the current season, including key stats and the latest race meetings, with a real-time API status indicator.



#BahrainGP #BahrainGP #BahrainGP

# GRAND PRIX

Spa-Francorchamps

Key: 7

Sessions

- Race Race 7/27/2025
- Qualifying Qualifying 7/26/2025
- Sprint Race 7/26/2025
- Sprint Qualifying Qualifying 7/25/2025
- Practice 1 Practice 7/25/2025

Race Winner

Oscar PIASTRI

McLaren

44 Laps Completed

P1

- The Meetings page serves as the main archive. Users can browse through a complete history of all race weekends available in the database.
- To handle the large amount of data, I implemented robust client-side filtering. Users can instantly search for a meeting by name or location, or filter the entire list by a specific year.

Search Meetings

Filter by Year

Results 62 meetings found

Meeting	Location	Date
Belgian Grand Prix	Spa-Francorchamps, Belgium	July 25, 2025
British Grand Prix	Silverstone, United Kingdom	July 4, 2025
Austrian Grand Prix	Spielberg, Austria	June 27, 2025
Canadian Grand Prix	Montréal, Canada	June 13, 2025
Spanish Grand Prix	Barcelona, Spain	May 30, 2025
Monaco Grand Prix	Monaco, Monaco	May 23, 2025

Session Type

Race



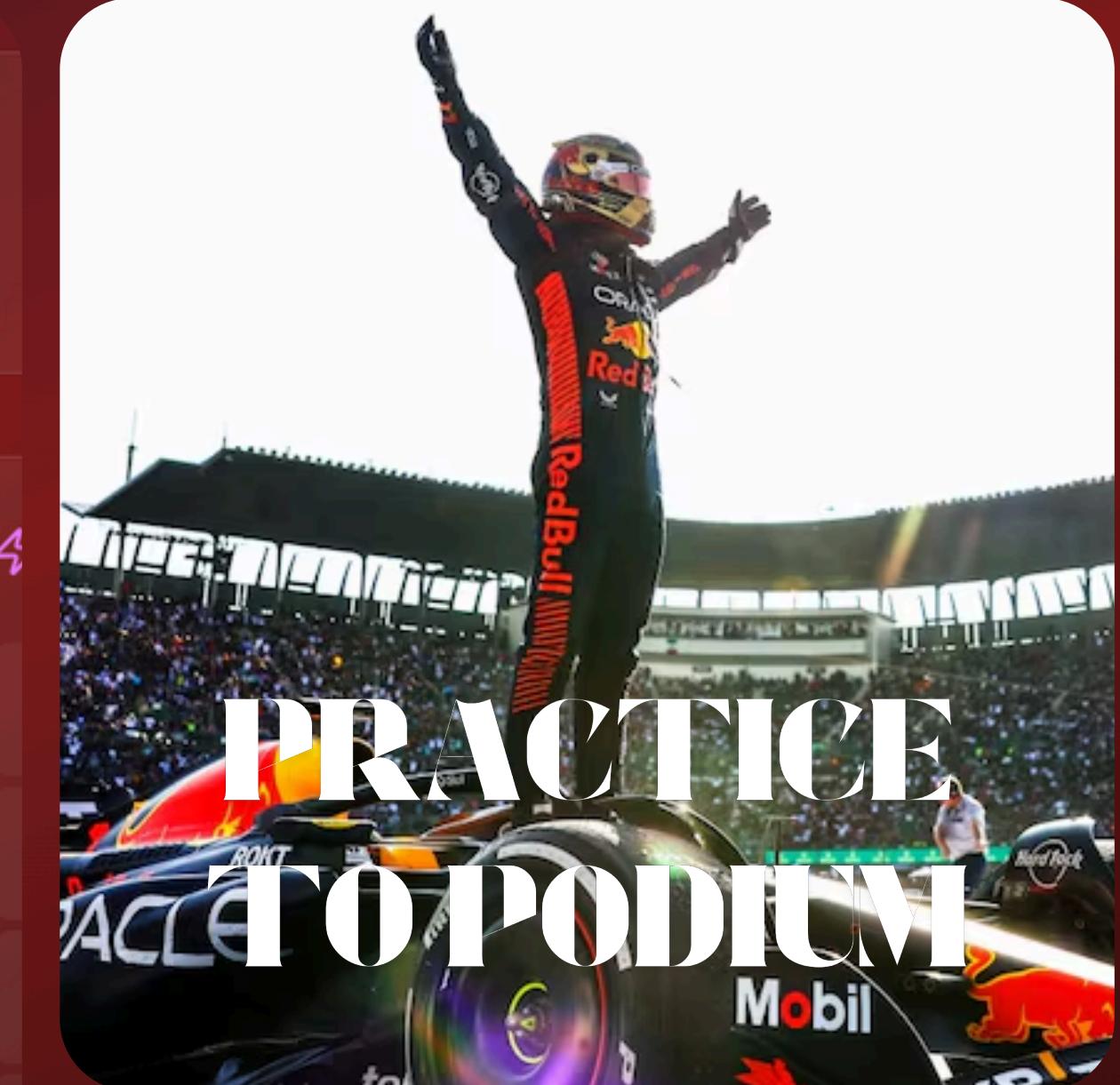
Drivers

20

Participating drivers

## 🏆 Final Positions

1	●	Oscar PIASTRI	44 Laps
2	●	Lando NORRIS	44 Laps
3	●	Charles LECLERC	44 Laps
4	●	Max VERSTAPPEN	44 Laps
5	●	George RUSSELL	44 Laps
6	●	Alexander ALBON	44 Laps
-	●	Lewis HAMILTON	



# PRACTICE TOP PODIUM

- The filters are dynamic. You can view all sessions from all races, or drill down into a specific race weekend to see only the relevant sessions.

- To provide a comprehensive resource, the Drivers Page is a self-sufficient directory that fetches a master list of all drivers. Users can quickly find any driver using the search and team filters.



# A COMPLETE DRIVER DIRECTORY



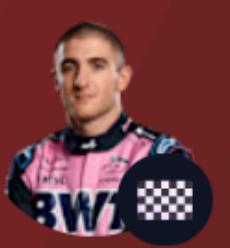
**Isack HADJAR**  
Racing Bulls



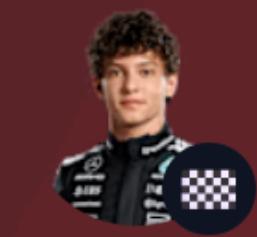
**Isack HADJAR**  
AlphaTauri



**Jack DOOHAN**  
Alpine



**Jack DOOHAN**  
Alpine



**Kimi ANTONELLI**  
Mercedes



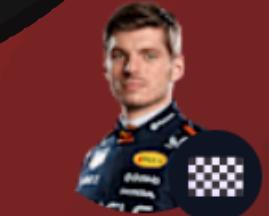
**Lewis HAMILTON**  
Ferrari



**Logan SARGEANT**  
Williams



**Luke BROWNING**  
Williams



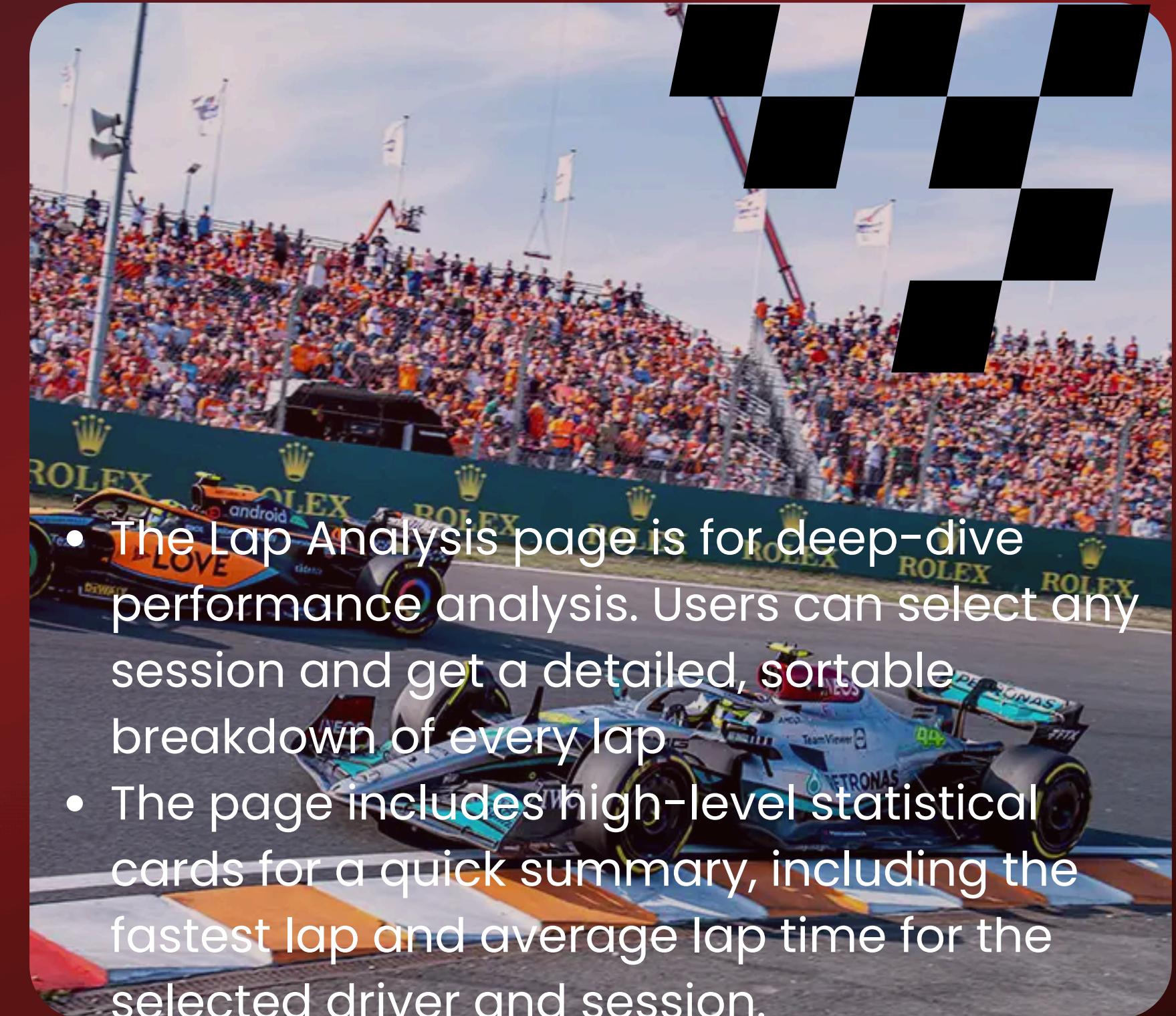
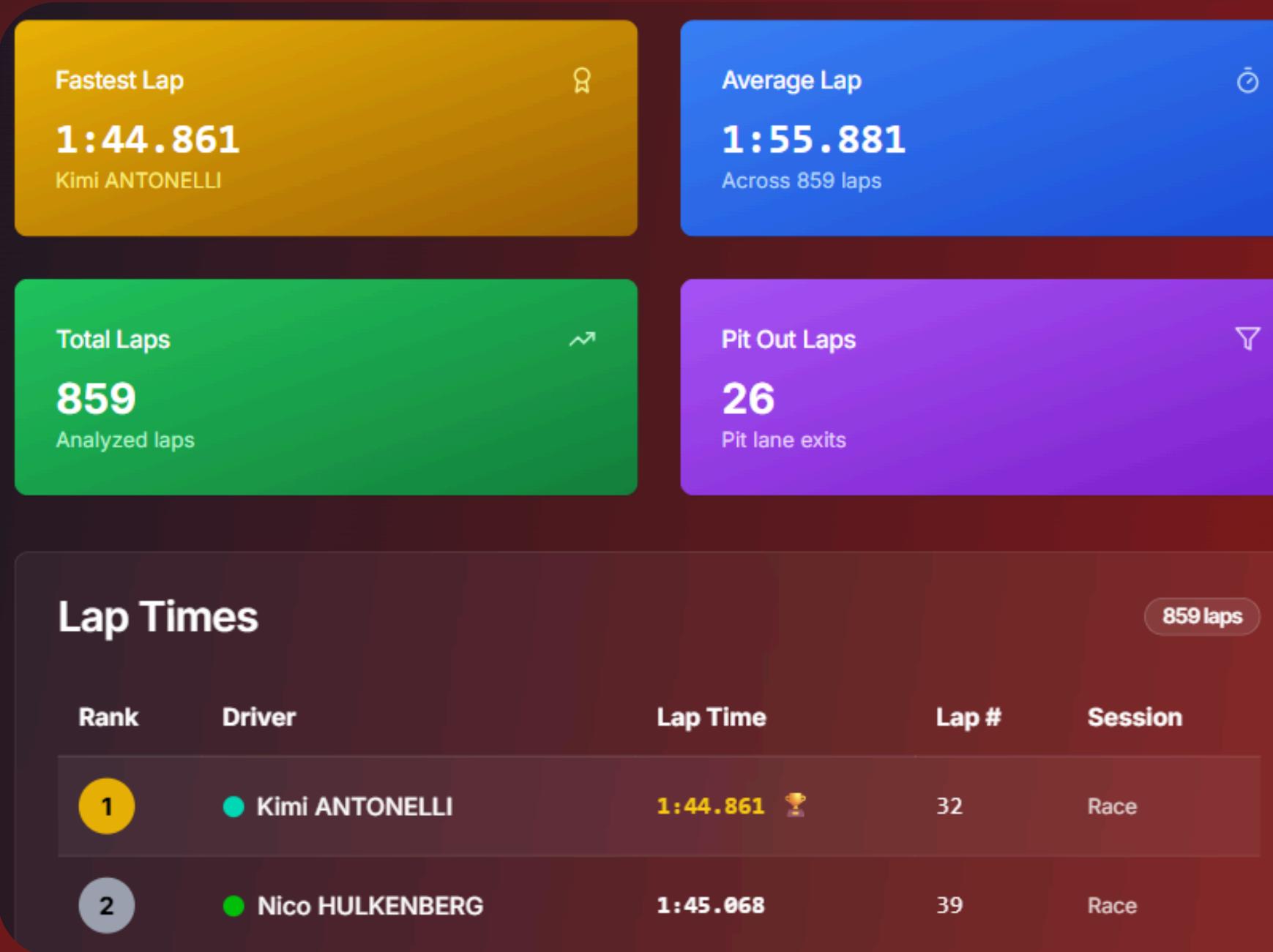
**Max VERSTAPPEN**  
Red Bull Racing



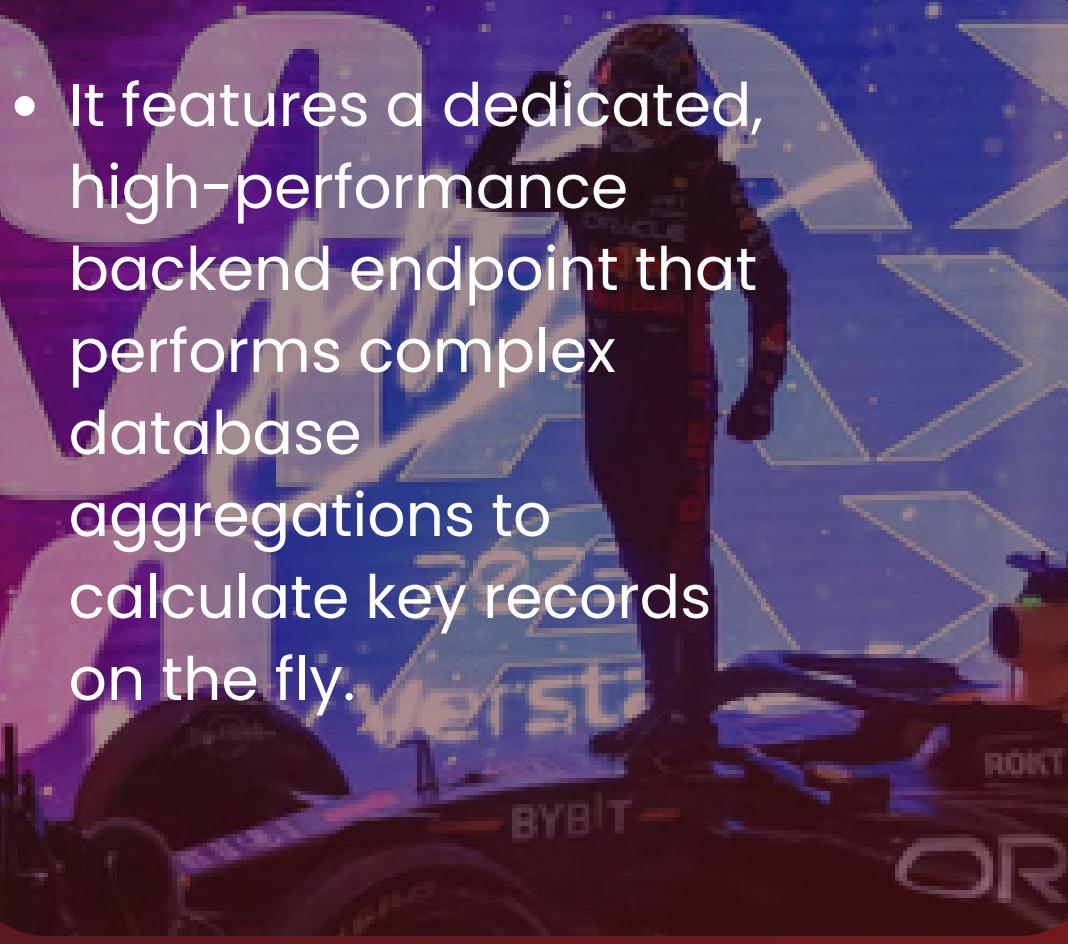
**Maxwell ESTERSON**

- The key feature here is the interactive stats popup. Clicking on any driver reveals their key career statistics, like Grand Prix wins and World Championships, fetched on-demand from a dedicated backend endpoint.

# LAP ANALYSIS



- The Lap Analysis page is for deep-dive performance analysis. Users can select any session and get a detailed, sortable breakdown of every lap.
- The page includes high-level statistical cards for a quick summary, including the fastest lap and average lap time for the selected driver and session.
- To make the data portable, I also implemented a CSV export feature, allowing users to download the raw lap data for their own analysis.



- It features a dedicated, high-performance backend endpoint that performs complex database aggregations to calculate key records on the fly.

## Season Records

Key achievements for the selected season.

👑 2025 World Champion

**Lando NORRIS**  
McLaren  
**184 PTS**

⚡ Fastest Lap of the Season

**1:03.971**  
**Lando NORRIS**  
at the Austrian Grand Prix

# HALL OF FAME

Most Wins

**Oscar PIASTRI**  
McLaren  
**4 WINS**

A close-up photograph of a Formula 1 helmet, featuring a vibrant, abstract design in shades of pink, blue, and white. The helmet is positioned against a dark, blurred background, possibly a race car wheel.

Year

Meeting

Session

Year

Meeting

Session

Year

Meeting

Session

Lewis HAMILTON

Max VERSTAPPEN

