

OpenF1 API to Feature Mapping - Real-Time F1 Race Dashboard

1. User Profile and Driver Selection

Endpoint(s): /v1/drivers

Key Attributes:

- driver_number
- full_name
- headshot_url
- team_colour
- team_name

2. Real-Time Telemetry and Race Performance

Endpoint(s): /v1/car_data

Key Attributes:

- speed
- throttle
- rpm
- n_gear
- drs
- date

3. Lap Times and Sector Analysis

Endpoint(s): /v1/laps

Key Attributes:

- lap_duration
- duration_sector_1/2/3
- date_start
- lap_number
- segments_sector_1/2/3

4. Pit Stop Information

Endpoint(s): /v1/pit

Key Attributes:

- pit_duration
- lap_number
- date

5. Position Tracking and Gap Analysis

Endpoint(s): /v1/position, /v1/interval

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Key Attributes:

- position
- gap_to_leader
- interval
- date

6. Comparative Performance Analysis

Endpoint(s): /v1/laps, /v1/position, /v1/intervals

Key Attributes:

- Aggregated comparison between driver and others using lap and interval data

7. Race Context and Metadata

Endpoint(s): /v1/sessions, /v1/meetings, /v1/weather

Key Attributes:

- Session info
- Circuit info
- Weather conditions

8. Optional: Location Tracking

Endpoint(s): /v1/location

Key Attributes:

- x, y, z coordinates
- date

9. Optional: Team Radio / Race Control Events

Endpoint(s): /v1/team_radio, /v1/race_control

Key Attributes:

- Event descriptions
- Communications
- Flag information