



## 1. Provisional Results by Class

### Dataset Overview

This dataset contains provisional race results, showing finishing positions and performance metrics for competing vehicles.

### Column Definitions

Column Name	Data Type	Description	Format/Example	Notes
CLASS_TYPE	String	Racing class/category	"Am"	Indicates the competitive class (Am = Amateur)
POS	Integer	Overall finishing position	1, 2, 3...	Position across all classes
PIC	Integer	Position in Class	1, 2, 3...	Position within the specific class category
NUMBER	Integer	Car/Driver number	13, 22, 72...	Unique identifier for each competitor
VEHICLE	String	Vehicle make and model	"Toyota GR86"	All vehicles in this dataset are Toyota GR86
LAPS	Integer	Total laps completed	27, 26, 13	Maximum laps in this race: 27
ELAPSED	String	Total race time	"45:15.035"	Format: MM:SS.mmm
GAP_FIRST	String	Time gap to race leader	"+2.740", "1 Laps"	Empty for 1st place
GAP_PREVIOUS	String	Time gap to car ahead	"+2.740", "13 Laps"	Empty for 1st place
BEST_LAP_NUM	Integer	Lap number of fastest lap	8, 7, 14...	Indicates which lap the best time occurred

BEST_LAP_TIME	String	Fastest lap time	"1:37.428"	Format: M:SS.mmm
BEST_LAP_KPH	Float	Average speed during fastest lap	136.8	km/h

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## 2. GR Cup Race Official Results

### ***Dataset Overview***

This dataset contains official race results from GR Cup Race.

### ***Column Definitions***

Column Name	Data Type	Description	Format/Example
POSITION	Integer	Final finishing position	1, 2, 3...
NUMBER	Integer	Car/Driver number	13, 22, 72...
STATUS	String	Race completion status	"Classified"
LAPS	Integer	Total laps completed	28, 27, 26...
TOTAL_TIME	String	Total race time	"45:37.014"
GAP_FIRST	String	Gap to leader	"+0.234", "1 Lap", "-"
GAP_PREVIOUS	String	Gap to car ahead	"+0.234", "1 Lap", "-"
FL_LAPNUM	Integer	Fastest lap number	2, 11, 17...
FL_TIME	String	Fastest lap time	"1:37.350"
FL_KPH	Float	Fastest lap average speed	136.9
CLASS	String	Racing class	"Am"
DIVISION	String	Race series division	"GR Cup"
VEHICLE	String	Car model	"Toyota GR86"

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## 3. Analysis Endurance With Sections

### ***Dataset Overview***

This dataset contains detailed lap-by-lap and sector timing data from a race.

**Key Columns**

Column Name	Description
NUMBER	Vehicle number
LAP_NUMBER	Current lap count
LAP_TIME	Full lap time
S1 / S2 / S3	Sector times
KPH	Average lap speed
TOP_SPEED	Max speed during lap
PIT_TIME	Pit stop duration if applicable
FLAG_AT_FL	Track condition (Green, Full Caution, etc.)

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**4. Weather Data**

**Dataset Overview**

This dataset contains real-time weather monitoring data throughout a race.

Column Name	Units	Description
TIME_UTC_STR	Timestamp	Local race event timestamp
AIR_TEMP	°C	Ambient temperature
HUMIDITY	%	Relative humidity
PRESSURE	mbar	Atmospheric pressure
WIND_SPEED	km/h or m/s	Wind velocity
WIND_DIRECTION	Degrees (0–360°)	Wind heading
RAIN	Binary (0/1)	Rain indicator

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**5. Best 10 Laps By Driver**

## ***Dataset Overview***

This dataset provides the 10 fastest lap times for each driver along with when those laps occurred.

Column Name	Description
NUMBER	Car number
TOTAL_DRIVER_LAPS	Total laps completed
BESTLAP_1 through BESTLAP_10	Laptimes for fastest laps
BESTLAP_1_LAPNUM etc.	Lap number where each best lap was set
AVERAGE	Mean of best 10 laps

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## **6. Lap Timing Telemetry Data**

This dataset contains timestamped lap timing events for practice/race sessions, including:

- lap\_time
- lap\_start
- lap\_end
- vehicle\_id
- Event timestamps (high precision)