**MINI PROJECT**

**PROJECT TITLE**

**“CARS DATASET 2025 DASHBOARD BY USING EXCEL”**

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**Introduction**

* **Objective of this project :**

The “Cars Datasets 2025” was selected due to its extensive coverage of car specifications and market offerings across brands and regions for the year 2025, reflecting the latest technologies and industry trends. The diversity in the dataset including engine types, hybrid/electric models, fuel technologies, and price points makes it a valuable resource for both high-level market analysis and technical performance comparisons.

* **Importance of Sales Analysis in the Automobile industry :**

The Sales Analysis plays a crucial role in the Automobile Industry because it helps the companies to identify the

1. Market Demand Understanding.
2. Customer Preference insights.
3. Strategic Decision.
4. Trend Identifications.
5. Competitive Advantages.
6. Profitability Optimizations.
7. Quick Analysis.

**Data Description**

* **Data Source :**

The dataset is provided as an Excel file named as “Cars dataset 2025”. The dataset contains information on over 1200 car models from a wide range of international manufactures. The data is assumed to be educational (analysis purposes) since it covers global sales comprehensively.

* **Attributes in Dataset :**

The dataset contains 11 columns and 1215 rows and 4 Sheets :

1. Company name
2. Cars Name
3. Engines
4. Battery
5. Horse Power
6. Speed
7. Performance
8. Cars Price
9. Fuel Types
10. Seats
11. Torque

* **Time Period Covered :**

The dataset covers over 2025.

**Data Cleaning & Preparation**

1. Handling Missing Values
2. Removing Duplicates
3. Standardizing Fuel Type
4. Addressing inconsistent
5. Conditional Formatting
6. Converting into units
7. Final Prepared Dataset

**Dashboard Design**

* **Visual Elements :**

The Dashboard uses a combination of charts and pivot tables, Slicers :

1. Bar Chart : Max Torque by Company.
2. 3D Clustered Column : Avg Car Price by Companies.
3. Column Chart : Max Top Speed.
4. Clustered Chart : No.of Cars Companies.
5. Donut Chart : Fuel Type.
6. Pie Chart : Top Speed by Fuel.

* **Slicers :**

The Interactive Slicers were added to allow users to filter data dynamically

1. Fuel types
2. Company Names
3. Battery Capacity

**Analysis & Insights**

1. Overall Performance
2. High-Performance – Brands like Bugatti, Tesla, Ferrari shows Horsepower & Top speed.
3. Electric/hybrid – these models are rapidly being adopted.
4. Price Segmentation – reveals luxury brands clustering.
5. Hybrids & Electrics – have high torque for the same price range.
6. Seating analysis – shows SUVs and minivans from brands like Toyota and GMC dominate the 7-seater category, while sports cars remain predominantly 2-seater.

**Conclusion**

The Cars 2025 Dashboard provides a comprehensive overview of the automative market landscape for the year 2025, analysing multiple key metrics including the number of cars by manufactures, maximum top speeds, fuel types, torque, and average car prices by companies.

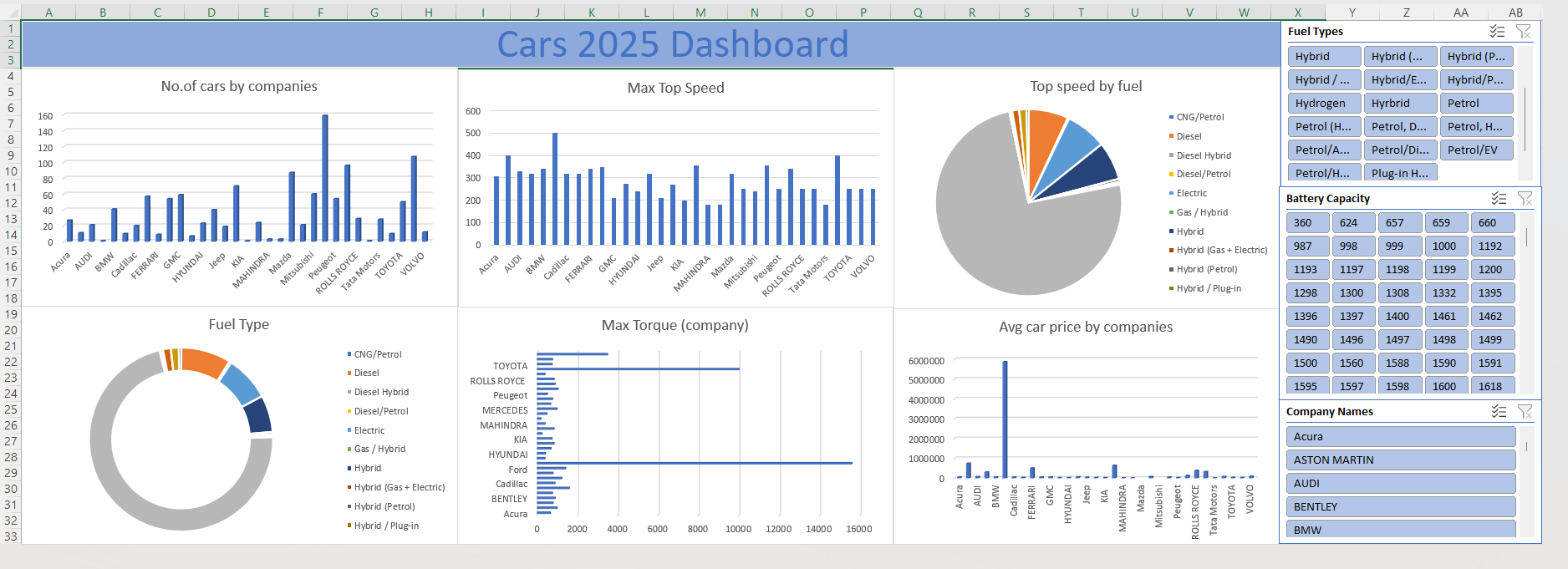
1. Market Distribution.
2. Performance insights.
3. Fuel type trends.
4. Pricing analysis.

Overall, the data indicates a transitional phase in the automotive industry, with manufacturers balancing between traditional combustion engines and emerging hybrid technologies. Companies like Peugeot, Toyota and BMW dominate in terms of production volume, performance, and pricing strategy, setting the trends for the future automotive market.

**Future Scope**

* Extend Analysis to country/regional availability and sales data as new releases hit the market.
* Integrate macroeconomic factors for predictive trend modelling.
* Expand dashboard with customer reviews and reliability data for holistic decision-making.
* Apply machine learning for price prediction or optimal car selection based on buyer preferences.

**Screenshot of Dashboard**

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