**Car Supply Chain Analytics Dashboard**

Welcome to the Car Supply Chain Analytics Dashboard project! This project focuses on analyzing and visualizing data related to the car supply chain to provide insights into sales trends, shipping modes, and customer demographics.

**Overview**

This project involves:

* Data extraction and cleaning using Python.
* Creating interactive and insightful visualizations with Power BI.
* Performing data analysis using Pandas to enhance dataset accuracy and efficiency.

**Features**

* **Data Extraction and Cleaning**: Cleaned and processed data to create a streamlined dataset for analysis.
* **Visualization**: Developed dashboards using Power BI to illustrate sales trends, shipping methods, and customer feedback.
* **Data Analysis**: Applied Pandas to conduct preliminary data analysis and refine dataset accuracy.

**Getting Started**

**Prerequisites**

* Python 3.x
* Power BI Desktop
* Pandas library (pip install pandas)

**Installation**

1. **Clone the Repository**:

bash

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git clone https://github.com/yourusername/car-supply-chain-analytics.git

1. **Navigate to the Project Directory**:

bash

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cd car-supply-chain-analytics

**Usage**

1. **Data Extraction and Cleaning**:
   * Modify the data\_extraction.py script to connect to your data sources.
   * Run the script to clean and prepare the data:

bash

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python data\_extraction.py

1. **Data Analysis**:
   * Use the data\_analysis.ipynb Jupyter notebook to explore and analyze the data.
2. **Visualization**:
   * Open the .pbix file in Power BI Desktop to interact with the dashboard.

**Project Structure**

* data\_extraction.py: Python script for data extraction and cleaning.
* data\_analysis.ipynb: Jupyter notebook for data analysis.
* dashboard.pbix: Power BI file with the interactive dashboard.
* data/: Directory containing raw and processed data files.

**Contributing**

Contributions are welcome! If you have suggestions or improvements, please open an issue or submit a pull request.

**License**

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**Acknowledgements**

* [Power BI](https://powerbi.microsoft.com/) for the visualization tools.
* Pandas for data manipulation and analysis.