Australia Car Market price Prediction Machine Learning Project

Sources

static data from Kaggle as **Minimal Value Product(MVP)**

Call Facebook Marketplace **API**

Object Type: CSV,JSON

Interface: Files/ API endpoint

Data Lakehouse

Bronze Layer

Raw Data Storage

Object Type: Tables/ Collections

Load: Batch Processing, Full load

Transformations: None (or very minimal)

Data Model: As-is

Sylver Layer

Processed, Standardized Data

Object Type: Tables

Load: Batch Processing, Incremental Updates.

Transformations:
-Data Cleansing
-Data Standardization
-Data Normalization
-Derived Columns

Data Model: Flat Table

Gold Layer

Model Artifacts Storage

Object Type: Serialized Model

Transformations:
-Feature engineering
-Model Training
-Hyperparameter Tuning
-Model Evaluation

Data Model: N/A

Consume

Streamlit Web Application (Front-end)

Supervised Machine Learning algorithm

Object Type: Interactive Application/ Prediction Output