**BLUEPRINT Team-12**

**Used Car Price Prediction Using ML AND DL.**

**The Blueprint file structure follows the following pattern:**

Model Evaluation

Model

Creation

Feature

Engineering

EDA

Data

Preparation

Data

**Data:**

Data sets link : <https://www.kaggle.com/focusedmonk/true-value-cars-dataset>

Collection of Data Sets:

* Train.csv
* Test.csv

**Data Preparation:**

* Data Cleaning: Identifying and correcting mistakes or errors in the data. In data sets, Neither Missing nor duplicate rows present.
* Identifying input variables that are more relevant to the task.
* Adding new features and attributes to the data sets
* Finding correlation between all the columns and remove unwanted rows.
* Data structuring:The data needs to be structured ,modeled and organized into a modified format.
* Handling both data sets train.csv & test.csv

**EDA:**

* Importing the Data Sets.
* See the view and shape of the data set.
* Descriptive statistics of the data set.
* Checking about the correlation between features In a data set.
* Checking about data types and missing values in the data.
* Checking about Unique values of each column.

**Feature Engineering:**

* Imputation: If missing values are present ,impute them.
* Encoding categorical features and Standardization of data.
* Scaling: For symmetric dataset scaling is required and used in normalization and standardization.

**Model Creation:**

* It is iterative phase where a data scientist continually train and test machine learning models to discover the best one for the task.
* Linear Regression, Logistic Regression, SVM algorithm and some other regression techniques are applied to old car price prediction.

**Model Evaluation:**

* Model Evaluation aims to estimate the generalization accuracy of model on future.
* There are 3 error metrics are used for evaluating and reporting the performance of a regression model.
* Mean Squared Error (MSE)
* Root Squared Error (RMSE)
* Mean Absolute Error(MAE)