

## Car Resale Value Prediction

Team ID : PNT2022TMID31751

### Model Selection:

```
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.2)

from sklearn.linear_model import LinearRegression
from sklearn.preprocessing import OneHotEncoder
from sklearn.compose import make_column_transformer
from sklearn.pipeline import make_pipeline
from sklearn.metrics import r2_score

enc=OneHotEncoder()
enc.fit(X[['Car_names','Brands','fuel_type']])

column_trans=make_column_transformer((OneHotEncoder(categories=enc.categories_),
                                     ['Car_names','Brands','fuel_type']),
                                     remainder='passthrough')

# Linear Regression model
mod=LinearRegression()

# Making a pipeline
pipe=make_pipeline(column_trans,mod)

# Fitting the model
pipe.fit(X_train,y_train)
```