

## MODEL SAVING

Date	17.11.2022
Team ID	PNT2022TMID09388
Project Name	Car Resale Value Prediction

### Linear Regression

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Linear Regression Model
In [38]: lr=LinearRegression()

Making a pipeline
In [39]: pipe=make_pipeline(column_trans,lr)

Fitting the model
In [40]: pipe.fit(X_train,y_train)
Out[40]: Pipeline(steps=[('columntransformer',
                           ColumnTransformer(remainder='passthrough',
                           transformers=[('onehotencoder',
                                         OneHotEncoder(categories=[array(['Audi A3 Cabriolet', 'Audi A4 1.8', 'Audi A4 2.0', 'Audi A6 2.0',
'Audi A8', 'Audi Q3 2.0', 'Audi Q5 2.0', 'Audi Q7', 'BMW 3 Series',
'BMW 5 Series', 'BMW 7 Series', 'BMW X1', 'BMW X1 sDrive20d',
'BMW X1 xDrive20d', 'Chevrolet Beat', 'Chevrolet Beat...',
array(['Audi', 'BMW', 'Chevrolet', 'Datsun', 'Fiat', 'Force', 'Ford',
'Hindustan', 'Honda', 'Hyundai', 'Jaguar', 'Jeep', 'Land',
'Mahindra', 'Maruti', 'Mercedes', 'Mini', 'Mitsubishi', 'Nissan',
'Renault', 'Skoda', 'Tata', 'Toyota', 'Volkswagen', 'Volvo'],
dtype=object)),
array(['Diesel', 'LPG', 'Petrol'], dtype=object))]),
                           [('name', 'company',
                               'fuel_type')]))],
                           ('linearregression', LinearRegression()))])

In [41]: y_pred=pipe.predict(X_test)

Checking R2 Score
In [42]: r2_score(y_test,y_pred)
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