CAR RESALE VALUE PREDICTION

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Building the Model Metrics:

A metric is a function that is used to judge the performance of your model. Metric functions are similar to loss functions, except that the results from evaluating a metric are not used when training the model

```
Rf_train_pred = Rf.predict(X_train)
Rf_test_pred = Rf.predict(X_test)

# R Square
r2_score = metrics.r2_score(Y_train, Rf_train_pred)
print(f"Training: R Square: {r2_score}")

# Cross Validation
cross_val = cross_val_score(Rf ,X_train ,Y_train ,cv=5)
print(f"Training: Cross Validation: {cross_val}")

# R Square
r2_score = metrics.r2_score(Y_test, Rf_test_pred)
print(f"Testing: R Square: {r2_score}")

# Cross Validation
cross_val = cross_val_score(Rf ,X_test ,Y_test, cv=5)
print(f"Testing: Cross Validation: {cross_val}")
```

```
Training: R Square: 0.9634068241842525
Training: Cross Validation: [0.86180265 0.72335423 0.82680209 0.77154654 0.59247079]
Testing: R Square: 0.8398855004626132
Testing: Cross Validation: [0.5442537  0.73055237 0.75570519 0.8653601  0.71294432]
```