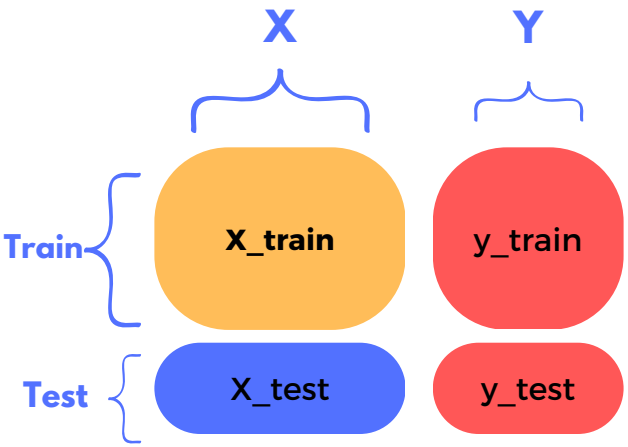
ashishpatel2604

SCIKIT-LEARN

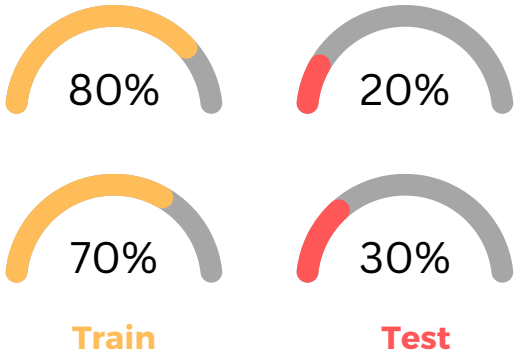
Cheatsheet for your Next Interview

Train-Test Split



- **Method of dividing the data into two part: Training and Testing**
- **Training Data : Model Training**
- **Testing Data : Model Evaluation**

Standard Ratio

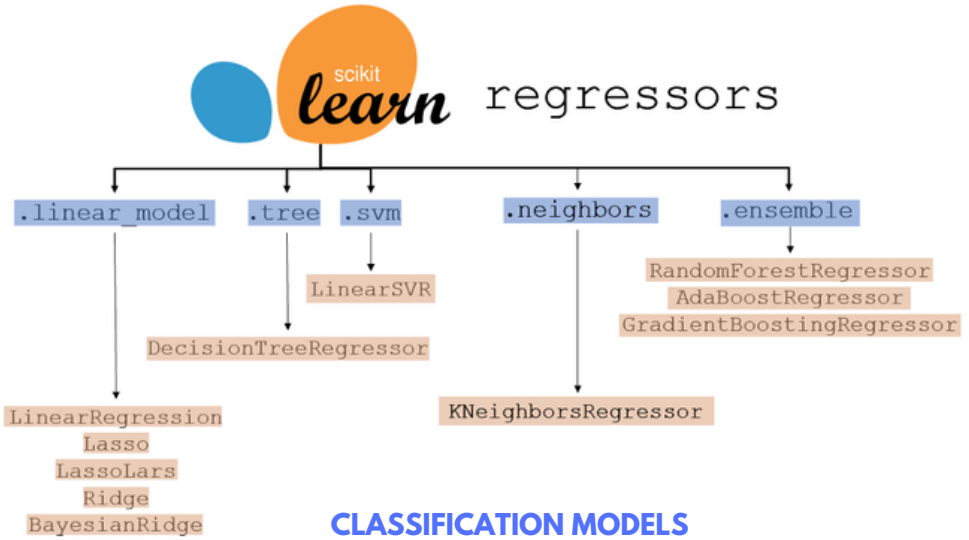



```
from sklearn.model_selection import
train_test_split
X_train,X_test,y_train,y_test =
train_test_split(X,y,test_size=0.3)
```

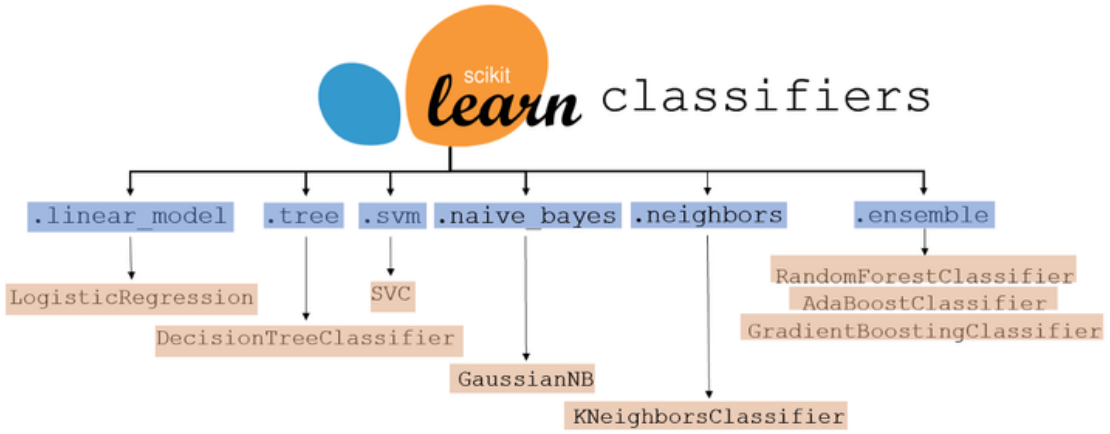
Supervised Learning Models

```
#Import
from sklearn.branch import
model_name

# Create a Instance
model = model_name()

# fit model
model.fit(X_train, y_train)
```

REGRESSION MODELS



CLASSIFICATION MODELS



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METRICS

Classification

```
accuracy_score()
balanced_accuracy_score()
classification_report()
cohen_kappa_score()
confusion_matrix()
f1_score()
precision_score()
recall_score()
roc_auc_score()
Jaccard_score()
```

Regression

```
explained_variance_score()
mean_absolute_error()
mean_squared_error()
mean_squared_log_error()
median_absolute_error()
mean_absolute_percentage_error()
r2_score()
```

CLUSTERING


```
AffinityPropagation()
AgglomerativeClustering()
Birch()
DBSCAN()
FeatureAgglomeration()
KMeans()
BisectiongKmeans()
```

```
MiniBatchKmeans()
MeanShift()
OPTICS()
SpectralClustering()
SpectralBiclustering()
SpectralCoclustering
```

DIMENSIONALITY REDUCTION


```
PCA()
KernelPCA()
IncrementalPCA()
SparsePCA()
MiniBatchSparsePCA()
LatentDirichletAllocation()
FastICA()
```

```
DictionaryLearning()
FactorAnalysis()
MiniBatchDictionaryLearning()
NMF()
MiniBatchNMF()
SparseCoder()
TrancatedSVD()
```