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**Python For Data Science Cheat Sheet**  
Scikit-Learn  
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**Scikit-learn**  
Scikit-learn is an open source Python library that implements a range of machine learning, preprocessing, cross-validation and visualization algorithms using a unified interface.

**A Basic Example**

```
from sklearn import neighbors, datasets, preprocessing
from sklearn.cross_validation import train_test_split
from sklearn.metrics import accuracy_score
iris = datasets.load_iris()
X, y = iris.data[:, 2:], iris.target
X_train, X_test, y_train, y_test = train_test_split(X, y, random_state=0)
scaler = preprocessing.StandardScaler().fit(X_train)
X_test = scaler.transform(X_test)
knn = neighbors.KNeighborsClassifier(n_neighbors=5)
knn.fit(X_train, y_train)
```

**Create Your Model**

**Supervised Learning Estimators**

**Linear Regression**

```
from sklearn.linear_model import LinearRegression
lr = LinearRegression(normalize=True)
```

**Support Vector Machines (SVM)**

```
from sklearn.svm import SVC
svc = SVC(kernel="linear")
```

**Naive Bayes**

```
from sklearn.naive_bayes import GaussianNB
gnb = GaussianNB()
```

**KNN**

```
from sklearn import neighbors
knn = neighbors.KNeighborsClassifier(n_neighbors=5)
```

**Unsupervised Learning Estimators**

**Principal Component Analysis (PCA)**

```
from sklearn.decomposition import PCA
pca = PCA(n_components=0.95)
```

**K Means**

```
from sklearn.cluster import KMeans
k_means = KMeans(n_clusters=2, random_state=0)
```

**Evaluate Your Model's Performance**

**Classification Metrics**

**Accuracy Score**

```
from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_pred)
```

**Classification Report**

```
from sklearn.metrics import classification_report
print(classification_report(y_test, y_pred))
```

**Confusion Matrix**

```
from sklearn.metrics import confusion_matrix
print(confusion_matrix(y_test, y_pred))
```

**Regression Metrics**

**Mean Absolute Error**

```
from sklearn.metrics import mean_absolute_error
mae = mean_absolute_error(y_test, y_pred)
```

**Mean Squared Error**

```
from sklearn.metrics import mean_squared_error
mse = mean_squared_error(y_test, y_pred)
```

**R<sup>2</sup> Score**

```
from sklearn.metrics import r2_score
r2_score(y_test, y_pred)
```

**Training And Test Data**

```
from sklearn.cross_validation import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, random_state=0)
```

**Preprocessing The Data**

**Standardization**

```
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler().fit(X_train)
standardized_X = scaler.transform(X_train)
standardized_X_test = scaler.transform(X_test)
```

**Normalization**

```
from sklearn.preprocessing import Normalizer
scaler = Normalizer().fit(X_train)
normalized_X = scaler.transform(X_train)
normalized_X_test = scaler.transform(X_test)
```

**Binarization**

```
from sklearn.preprocessing import Binarizer
binarizer = Binarizer(threshold=0.0).fit(X)
binary_X = binarizer.transform(X)
```

**Encoding Categorical Features**

```
from sklearn.preprocessing import LabelEncoder
enc = LabelEncoder()
y = enc.fit_transform(y)
```

**Imputing Missing Values**

```
from sklearn.preprocessing import Imputer
imp = Imputer(missing_values="NaN", strategy="mean", axis=0)
imp.fit_transform(X_train)
```

**Generating Polynomial Features**

```
from sklearn.preprocessing import PolynomialFeatures
poly = PolynomialFeatures(5)
poly.fit_transform(X)
```

**Tune Your Model**

**Grid Search**

```
from sklearn.grid_search import GridSearchCV
params = [{"n_neighbors": np.arange(1, 5),
          "metric": ["cosine"], "cityblock": 1}]
grid = GridSearchCV(estimator=knn, param_grid=params)
grid.fit(X_train, y_train)
print(grid.best_score_)
print(grid.best_estimator_.n_neighbors)
```

**Randomized Parameter Optimization**

```
from sklearn.grid_search import RandomizedSearchCV
params = [{"n_neighbors": range(1, 5),
          "weights": ["uniform", "distance"],
          "metric": "cosine",
          "cityblock": 1,
          "random_state": 0}]
research = RandomizedSearchCV(estimator=knn,
                              param_distributions=params,
                              n_iter=10,
                              random_state=0)
research.fit(X_train, y_train)
print(research.best_estimator_)
```

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The Azure Machine Learning Algorithm Cheat Sheet helps you choose the right algorithm for a predictive analytics model. Azure Machine Learning has a large library of algorithms from the classification, recommender systems, clustering, anomaly detection, regression, and text ...

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