

How it Works

Get Quote Now



Log In

Programming Languages

Web Programming

Data Science

Mobile Dev

Databases

Hire Us

All Topics

Programming Help

Mobile App Development

Web Development

More ~

Q

Machine Learning Algorithms- Fit and predict train and test data

In this post, we will learn how machine learning algorithm work, here we go through basic concepts of all the machine learning algorithms and how to fit and predict train and test data in machine learning.



How it Works

Get Quote Now



Log In

Programming Languages Web Programming Data Science Databases Hire Us Mobile Dev

Machine Learning Algorithms- Fit and predict train and test data

Types of ML Algorithms:

ML Algorithms divided into three categories -

- 1. Supervised Learning
- 2. Unsupervised Learning
- 3. Reinforcement Learning

Supervised Learning



How it Works

Get Quote Now



Log In

Programming Languages Web Programming **Data Science** Mobile Dev **Databases** Hire Us

- Regression,
- Decision Tree,
- Random Forest,
- KNN.
- Logistic Regression, etc.

Unsupervised Learning

This algorithm work without having any target or outcome variable to predict. It is used for the clustering population in different groups, which is used for segmenting customers in different groups.

Types of Unsupervised Learning

- Apriori algorithm,
- K-means

Reinforcement Learning

This algorithm used from past experience and tries to capture the best possible knowledge to find accurate decisions.

Types of Reinforcement Learning



How it Works

Get Quote Now



Log In

Web Programming **Programming Languages** Databases **Data Science** Mobile Dev Hire Us

importing required libraries

import pandas as pd from sklearn.linear_model import LinearRegression from sklearn.metrics import mean_squared_error

```
''' For more visit
    https://www.codersarts.com
     import pandas as pd
     from sklearn.linear_model import LinearRegression
     from sklearn.metrics import mean_squared_error
     # read the train and test dataset
     train_data = pd.read_csv('train_data.csv')
     test_data = pd.read_csv('test_data.csv')
16
17
     print(train_data.head())
18
     # shape of the dataset
20
     print('\nShape of training data :',train_data.shape)
     print('\nShape of testing data :',test_data.shape)
     # Predict the missing target variable in the test data
```



How it Works

Get Quote Now



Log In

Data Science **Programming Languages** Web Programming Hire Us Mobile Dev Databases

```
''' For more visit
     https://www.codersarts.com
     import pandas as pd
     from sklearn.linear_model import LogisticRegression
     from sklearn.metrics import accuracy_score
10
     # read the train and test dataset
     train_data = pd.read_csv('train_data.csv')
14
     test_data = pd.read_csv('test_data.csv')
     print(train_data.head())
     # shape of the dataset
     print('\nShape of training data :',train_data.shape)
20
     print('\nShape of testing data :',test_data.shape)
     # Predict the missing target variable in the test data
25
```

Decision Tree



How it Works

Get Quote Now



Log In

Programming Languages Web Programming Data Science Hire Us Mobile Dev Databases

```
from sklearn.metrics import accuracy_score
10
     # read the train and test dataset
     train_data = pd.read_csv('train_data.csv')
     test_data = pd.read_csv('test_data.csv')
     print(train_data.head())
18
     # shape of the dataset
19
     print('\nShape of training data :',train_data.shape)
     print('\nShape of testing data :',test_data.shape)
     # Predict the missing target variable in the test data
```

SVM (Support Vector Machine)



How it Works

Get Quote Now



Log In

Data Science **Programming Languages** Web Programming Hire Us Mobile Dev Databases

```
Trom Skacuritasym ampore Sve
     from sklearn.metrics import accuracy_score
10
     from sklearn.metrics import mean_squared_error
     # read the train and test dataset
     train_data = pd.read_csv('train_data.csv')
     test_data = pd.read_csv('test_data.csv')
     print(train_data.head())
18
     # shape of the dataset
19
20
     print('\nShape of training data :',train_data.shape)
     print('\nShape of testing data :',test_data.shape)
24
     # Predict the missing target variable in the test data
```

Naive Bayes



How it Works

Get Quote Now



Log In

Programming Languages Web Programming Data Science Hire Us Mobile Dev Databases

```
Trom Skiedrittindive_bayes impore dadssidine
     from sklearn.metrics import accuracy_score
     # read the train and test dataset
10
     train_data = pd.read_csv('train_data.csv')
     test_data = pd.read_csv('test_data.csv')
14
     print(train_data.head())
     # shape of the dataset
18
     print('\nShape of training data :',train_data.shape)
19
     print('\nShape of testing data :',test_data.shape)
     # Predict the missing target variable in the test data
24
     train_x = train_data.drop(columns=['Sales_item'],axis=1)
```

KNN (k- Nearest Neighbors)



How it Works

Get Quote Now



```
Programming Languages
                          Web Programming
                                                                                           Hire Us
                                               Data Science
                                                               Mobile Dev
                                                                             Databases
```

```
from sklearn.metrics import accuracy_score
10
     # read the train and test dataset
     train_data = pd.read_csv('train_data.csv')
     test_data = pd.read_csv('test_data.csv')
14
     print(train_data.head())
     # shape of the dataset
18
     print('\nShape of training data :',train_data.shape)
19
     print('\nShape of testing data :',test_data.shape)
     # Predict the missing target variable in the test data
24
     train_x = train_data.drop(columns=['Sales_item'],axis=1)
```

K-Means



How it Works

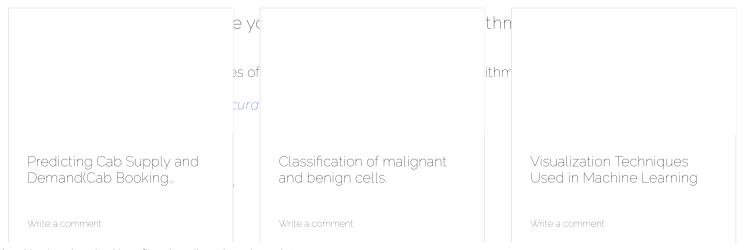
Get Quote Now



Log In

```
Programming Languages
                               Web Programming
                                                         Data Science
                                                                            Mobile Dev
                                                                                             Databases
                                                                                                              Hire Us
                      rom okacuritecauscer ampore kricuris
                     from sklearn.metrics import mean squared error
                     # read the train and test dataset
                10
                     train_data = pd.read_csv('train_data.csv')
                     test_data = pd.read_csv('test_data.csv')
                14
                     print(train_data.head())
                     # shape of the dataset
                18
                     print('\nShape of training data :',train_data.shape)
                19
                     print('\nShape of testing data :',test_data.shape)
                21
                     # Predict the missing target variable in the test data
                 24
                     train_x = train_data.drop(columns=['Sales_item'],axis=1)
```

Recent Posts See All



Write For Us



Find Services

Online Compiler

How it Works

Get Quote Now

Log In

Programming Languages	Web Programming	Data Science	Mobile Dev	Databases	Hire Us	
J	\cup			1 1 1		

About	Community	Career	Contact Us	
About Us	Forum	Jobs	Tel: (+91) 0120 4118730	
How We Work	News	Intership	Time: 10:00 AM - 08:00 PM IST	
	Reviews	Course Training	Email: contact@codersarts.com	
Sitemap	Blog		Registered address: G-69, Sector 63,	
Tutorial	File Sharing		Noida - 201301, India	

We Provide Services Across The different countries

USA Australia Canada UK UAE Singapore New Zealand Malasia India Ireland Germany

Privacy Policy | @2017-2019 CodersArts is a Product by Sofstack Technology Solutions Pvt. Ltd.







