

1 Scikit-Learn is primarily focused on

Correct!

Submitted answer:

- ☒ Traditional Machine Learning
- ☐ Natural Language Processing
- ☐ Time Series
- ☐ Deep Learning

2 In Scikit-Learn, what is the role of a model class?

Correct!

Submitted answer:

- ☐ It represents the dataset used for training.
- ☐ It stores the trained model's predictions.
- ☒ It represents a machine learning algorithm and its associated methods.
- ☐ It contains the output labels for supervised learning tasks.

3 Scikit-Learn is built on top of which Python libraries?

Correct!

Submitted answer:

- ☒ NumPy, SciPy, and Matplotlib
- ☐ Statsmodels and OpenCV
- ☐ Pandas and Seaborn
- ☐ Tensorflow

4 What does the following line of code achieve in Scikit-Learn?

Correct!

```
from sklearn.ensemble import RandomForestClassifier  
  
classification_model = RandomForestClassifier()
```

Submitted answer:

- ☐ It plots the decision boundary of the logistic regression model.
- ☐ It generates synthetic data for binary classification.
- ☐ It evaluates the performance of the logistic regression model.
- ☒ It creates an instance of a random forest classifier for classification tasks.

5 What is the purpose of the following code in Scikit-Learn?

Correct!

```
from sklearn.neighbors import KNeighborsClassifier  
  
classification_model = KNeighborsClassifier()
```

Submitted answer:

- ☒ It creates an instance of a k-nearest neighbors classifier for classification tasks.
- ☐ It generates synthetic data for a k-nearest neighbors classification problem.
- ☐ It evaluates the performance of the k-nearest neighbors classifier.
- ☐ It creates an instance of a k-nearest neighbors classifier for regression tasks.