**Intro to Scikit Learn Assessment**

**Quiz:**

1. **Scikit-Learn is primarily focused on**

Natural Language Processing

Traditional Machine Learning

Time Series

Deep Learning

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

It contains the output labels for supervised learning tasks.

It stores the trained model's predictions.

It represents the dataset used for training.

It represents a machine learning algorithm and its associated methods.

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

Statsmodels and OpenCV

Tensorflow

Pandas and Seaborn

NumPy, SciPy, and Matplotlib

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

**from** sklearn.ensemble **import** RandomForestClassifier

classification\_model = RandomForestClassifier()

It evaluates the performance of the logistic regression model.

It plots the decision boundary of the logistic regression model.

It generates synthetic data for binary classification.

It creates an instance of a random forest classifier for classification tasks.

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

**from** sklearn.neighbors **import** KNeighborsClassifier

classification\_model = KNeighborsClassifier()

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It generates synthetic data for a k-nearest neighbors classification problem.

It creates an instance of a k-nearest neighbors classifier for regression tasks.

It creates an instance of a k-nearest neighbors classifier for classification tasks.

It evaluates the performance of the k-nearest neighbors classifier.