SuperDataScience

AWS Machine Learning
Practical Exams Reward

EXPLORATORY DATA ANALYSIS

1. **You are given access to a csv file containing Stock prices. You want do basic data analysis on the data and also you wish to run a regression algorithm to predict the future price. Which of the following would help achieve this?**

   A Jupyter notebook and PCA
   B Jupyter notebook and scikit-learn SVM
   C IDE and scikit-learn k-means
   D IDE and feature selection

2. **John is building image classifier to differentiate Square from triangles. He has both the training images and their corresponding labels. Which Scikit-learn function would help him classify?**

   A SVM (Support Vector Machine)
   B K-means
   C PCA
   D Grid search

3. **Jack wanted to do a Machine learning project relating to predicting house prices around his living his area and he wishes to perform the following steps on his project like preprocessing, dimensionality reduction, and regression. Which of the following package would help you achieve this?**

   A Matplotlib
   B Seaborn
   C Image
   D Scikit-learn

4. **You have given access to University student data and you want to visualize the relationship between the various departments and the student performance. Which tool would help with this?**

   A Scatter plot
   B Histogram
   C Bar chart
   D Pie chart

5. **You are given access to the population data in the country and would like to plot the density of population using color. Which tool would you use?**

   A Histogram
   B Boxplot
   C Heatmap
   D Line chart

6. **You have given access to individual's earning and you are tasked to find the distribution of individuals based on the salary range. Which tool can help with this?**

   A Histogram
   B Athena
   C Line chart
   D Heatmap

7. **Which probability distribution would describe the likelihood of person surviving a heart attack?**

   A Normal Distribution
   B Binomial Distribution
   C Bernoulli Distribution
   D Poisson Distribution

8. **You want to plot a graph that shows distribution information that shows the lowest value, highest values and also the outliers within the dataset. Also, you want to know in which range most of the values would fall?**

A Bar chart
B Bubble chart
C Box plot
D Line plot

9. **You are working for a car dealership and you are tasked to analyze the car sales of different models and you want to choose the top 10 most selling cars and visually compare the number of cars sold. Which tool would help with this?**

A Histogram
B Box plot
C Bar chart
D Scatter plot

10. **You are using AWS SageMaker to create ML model for your company and you would like to visualize the data to understand more about the data. Which of the package would help you achieve this if you are working with python?**

A Keras
B Pytorch
C Numpy
D Matplotlib

ANSWER KEY:

1. B	2. A	3. D	4. A	5. C
6. A	7. B	8. C	9. C	10. D