Final Exam

Latest Submission Grade 100%

1.
Question 1

Which of the following is an example of Machine Learning?

1 / 1 point

○

Streaming service viewing suggestions.

○

Websites recommending items to purchase.

○

Telecommunication companies predicting subscriber retention.

◉

All of the above.

Correct

2.
Question 2

Which of the following groups are not Machine Learning techniques?

1 / 1 point

☐

Classification and Clustering

☑

Numpy, Scipy and Scikit-Learn

Correct

☐

Anomaly Detection and Recommendation Systems

3.
Question 3

In which of the following would you use **Multiple Linear Regression**?

1 / 1 point

○

Predicting job performance of employees by number of sick days taken throughout a year.

○

Predicting weather based on month.

○

Predicting population growth over time.

◉

Predicting the production of apples in an orchard based on temperature and rainfall.

Correct

4.
Question 4

In which of the following is correct for **Polynomial Regression**?

1 / 1 point

○

It can fit a curved line to your data.

○

It can be transformed into a linear regression model using the Least Squares method.

○

It can use the same mechanism as Multiple Linear Regression to find the parameters.

◉

All of the above.

Correct

5.
Question 5

Which one **IS NOT** a sample of classification problem?

1 / 1 point

◉

To predict the amount of money a customer will spend in one year.

○

To predict the category to which a customer belongs to.

○

To predict whether a customer switches to another provider/brand.

O

To predict whether a customer responds to a particular advertising campaign or not.

Correct

6.
Question 6

Which of the following statements are **TRUE** about Logistic Regression? (select all that apply)

1 / 1 point

☑

Logistic regression can be used both for binary classification and multi-class classification

Correct

☑

Logistic regression is analogous to linear regression but takes a categorical/discrete target field instead of a numeric one.

Correct

☑

In logistic regression, the dependent variable is binary.

Correct

7.
Question 7

What type of clustering divides the data into non-overlapping subsets without any cluster-internal structure?

1 / 1 point

O

Hierarchical clustering

O

None of the above

●

k-mean clustering

O

DBSCAN clustering

Correct

8.
Question 8

What does DBCSAN stand for?

1 / 1 point

○

Density-based Spatial Cores of Applications with Noise.

○

Data-Based Spatial Clustering of Applications with Noise.

○

Data-Based Sample Clustering of Applications with Noise.

◉

Density-Based Spatial Clustering of Applications with Noise.

Correct

9.
Question 9

What captures the pattern of people's behavior and uses it to predict what else they might want or like?

1 / 1 point

○

Resource Management

◉

Recommender Systems

○

Industrial Simulations

○

Reinforcement Systems

Correct

10.
Question 10

The statement "Show me more of the same of what I've liked before" is an example of what type of recommendation system?

1 / 1 point

○

Demographic-based

◉

Content-based

○

Utility-based

○

Collaborative

Correct