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GRADE

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Final Exam

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1. Which of the following is **not true** about Machine Learning?

1 / 1 point

- ☐ Machine Learning models iteratively learn from data, and allow computers to find hidden insights.
- ☐ Machine Learning models help us in tasks such as object recognition, summarization, and recommendation.
- ☒ Machine learning gives computers the ability to make decision by writing down rules and methods and being explicitly programmed.
- ☐ Machine Learning was inspired by the learning process of human beings.



Correct



Final Exam

Graded Quiz • 30 min

Due Sep 20, 12:29 PM IST

2. Which of the following is a Machine Learning technique?

1 / 1 point

- ☐ Clustering
- ☐ Classification
- ☐ Regression/Estimation
- ☐ Associations
- ☒ All of the above

✓ Correct

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

1 / 1 point

- ☐ Predicting weather based on month.
- ☒ Predicting the production of apples in an orchard based on temperature and rainfall.
- ☐ Predicting population growth over time.
- ☐ Predicting job performance of employees by number of sick days taken throughout a year.

✓ Correct



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4. Which type of regression model can be transformed into a linear regression model using the Least Squares method?

1 / 1 point

- ☐ Ridge Regression
- ☐ Multiple Linear Regression.
- ☒ Polynomial Regression.
- ☐ Logistic Regression

✓ Correct

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 responds to a particular advertising campaign or not.
- ☐ To predict whether a customer switches to another provider/brand.

✓ Correct



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6. Which of the following is an example of Logistic Regression?

1 / 1 point

- ☐ The probability of a person purchasing life insurance based on age and income.
- ☐ The probability of a borrower defaulting on their mortgage based upon their credit score and age.
- ☐ The odds of a particular individual having a heart attack based on how much they exercise and how much they weigh.
- ☒ All of the above.

✓ Correct

7. Which statement is **NOT TRUE** about k-means clustering?

1 / 1 point

- ☒ As k-means is an iterative algorithm, it guarantees that it will always converge to the global optimum.
- ☐ k-means divides the data into non-overlapping clusters without any cluster-internal structure.
- ☐ The objective of k-means, is to form clusters in such a way that similar samples go into a cluster, and dissimilar samples fall into different clusters.

✓ Correct



8. Which of the following are characteristics of DBSCAN? Select all that apply.

1 / 1 point

☒ DBSCAN can find arbitrarily shaped clusters.

✓ Correct

☒ DBSCAN can find a cluster completely surrounded by a different cluster.

✓ Correct

☒ DBSCAN has a notion of noise, and is robust to outliers.

✓ Correct

☒ DBSCAN does not require one to specify the number of clusters such as k in k -means

✓ Correct



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9. What is not an advantage of Recommender Systems?

1 / 1 point

- ☐ Recommender Systems benefit the service provider by increasing potential revenue and better security for its consumers.
- ☐ Recommender Systems provide a better experience for the users by giving them a broader exposure to many different products they might be interested in.
- ☐ Recommender Systems encourage users towards continual usage or purchase of their product.
- ☒ None of the above.

✓ Correct

10. A _____ recommendation system tries to recommend items to the users based on their profile built upon their preferences and taste.

1 / 1 point

- ☒ Content-based
- ☐ Utility-based
- ☐ Demographic-based
- ☐ Collaborative

✓ Correct