

Final Exam

Latest Submission Grade 100%

1. What is the subfield of computer science that gives "computers the ability to learn without being explicitly programmed."?

1 / 1 point

- ☐ Graphics and visual computing
- ☐ Computational science
- ☒ Machine learning
- ☐ Information management

✓ Correct

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

1 / 1 point

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

1 / 1 point

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

✓ Correct

3. When would you not use **Multiple Linear Regression**?

1 / 1 point

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Final Exam

Graded Quiz • 30 min

Due Jan 3, 1:29 PM +0530

3. When would you not use **Multiple Linear Regression**?

1 / 1 point

- ☐ When we would like to identify the strength of the effect that the independent variables have on a dependent variable.
- ☐ When we would like to predict impacts of changes in independent variables on a dependent variable.
- ☐ None of the above.
- ☒ When we would like to predict the impacts that weather and temperature have on a particular crop.



Correct

4. Which of the following statements are **TRUE** about **Polynomial Regression**?

1 / 1 point



Polynomial regression fits a curve line to your data.

✓ Correct

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1 / 1 point

☒ Polynomial regression fits a curve line to your data.

✓ Correct

☒ Polynomial regression models can fit using the Least Squares method.

✓ Correct

☒ Polynomial regression can use the same mechanism as Multiple Linear Regression to find the parameters.

✓ Correct

5. Which of the below is a sample of classification problem?

1 / 1 point

- ☐ To predict the category to which a customer belongs to.
- ☐ To predict whether a customer switches to another provider/brand.
- ☐ To predict whether a customer responds to a particular advertising campaign or not.
- ☒ All of the above

✓ Correct

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

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

1 / 1 point

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1 / 1 point

- ☒ k-mean clustering
- ☐ None of the above
- ☐ DBSCAN clustering
- ☐ Hierarchical clustering

✓ Correct

8. What are the two parameters for DBSCAN?

1 / 1 point

- ☐ Epsilon and Maximum Points
- ☒ Epsilon and Minimum Points

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1 / 1 point

☐ Epsilon and Maximum Points

☒ Epsilon and Minimum Points

☐ Clusters and Epsilon

☐ Clusters and Minimum Points

✓ Correct

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

1 / 1 point

☒ Recommender Systems

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

1 / 1 point

- ☒ Recommender Systems
- ☐ Reinforcement Systems
- ☐ Industrial Simulations
- ☐ Resource Management

✓ 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

- ☐ Collaborative

☐ Resource Management

✓ 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

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

✓ Correct