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## Intro to Machine Learning

Latest Submission Grade **100%**

1. Supervised learning deals with unlabeled data, while unsupervised learning deals with labelled data.

3 / 3 points

✔ **Correct**

2. The "Regression" technique in Machine Learning is a group of algorithms that are used for:

3 / 3 points

✔ **Correct**

3. When comparing Supervised with Unsupervised learning, is this sentence True or False?

3 / 3 points

In contrast to Supervised learning, Unsupervised learning has more models and more evaluation methods that can be used in order to ensure the outcome of the model is accurate.

✔ **Correct**

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## Regression

Latest Submission Grade 100%

1. Which of the following is the meaning of "Out of Sample Accuracy" in the context of evaluation of models?

3 / 3 points

✔ Correct

2. When should we use Multiple Linear Regression?

3 / 3 points

✔ Correct

3. Which sentence is NOT TRUE about Non-linear Regression?

3 / 3 points

✔ Correct

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## Classification

Latest Submission Grade **75%**

1. Which of the following examples is/are a sample application of Logistic Regression? (select all that apply)

0.75 / 3 points

✘ **Incorrect**

2. Which one is **TRUE** about the kNN algorithm?

3 / 3 points

✔ **Correct**

3. What is "information gain" in decision trees?

3 / 3 points

✔ **Correct**

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## Clustering

Latest Submission Grade 100%

1. Which of the following is an application of clustering?

3 / 3 points

✓ **Correct**

2. Which approach can be used to calculate dissimilarity of objects in clustering?

3 / 3 points

✓ **Correct**

3. How is a center point (centroid) picked for each cluster in k-means?

3 / 3 points

✓ **Correct**

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## Recommender System

Latest Submission Grade 100%

1. What is the meaning of "**Cold start**" in collaborative filtering?

3 / 3 points

✔ Correct

2. What is a "**Memory-based**" recommender system?

3 / 3 points

✔ Correct

3. What is the shortcoming of content-based recommender systems?

3 / 3 points

✔ Correct

✔ Congratulations! You passed!

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## Final Exam

Latest Submission Grade 90%

1. Which of the following is true about Machine Learning?

1 / 1 point

- ☐ Machine Learning models help us in tasks such as object recognition, summarization, and recommendation.
- ☐ Machine Learning models iteratively learn from data and allow computers to find hidden insights.
- ☐ Machine Learning was inspired by the learning process of human beings.
- ☒ All of the above.

✔ Correct

2. Regression/Estimation, Classification, Clustering, and Associations are all examples of what?

1 / 1 point

- ☐ Neural Networks
- ☐ Support Vector Machines
- ☒ Machine Learning techniques
- ☐ Fuzzy Logic Systems

✔ Correct

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

1 / 1 point

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

✔ Correct



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

1 / 1 point

☒ 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

☒ Polynomial regression fits a curve line to your data.

✓ Correct

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

0 / 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

✗ Incorrect

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

1 / 1 point

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

1 / 1 point

- ☐ 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.
- ☒ As k-means is an iterative algorithm, it guarantees that it will always converge to the global optimum.

 Correct

8. Which of the following is NOT a characteristic of DBSCAN?

1 / 1 point

- ☐ DBSCAN can find arbitrarily shaped clusters.
- ☐ DBSCAN does not require one to specify the number of clusters such as k in k-means.
- ☐ DBSCAN can find a cluster completely surrounded by a different cluster.
- ☒ DBSCAN is well suited to hierarchical data, such as taxonomies.

 Correct

9. A \_\_\_\_\_ system provides a better experience for the user by giving them a broader exposure to many different products they might be interested in.

1 / 1 point

- ☐ Reinforcement
- ☒ Recommender
- ☐ Relationship
- ☐ Resource

 Correct

10. Which of the following is NOT true regarding content-based recommendation systems?

1 / 1 point

- ☐ Content-based recommendation system tries to recommend items based on similarity among items.
- ☐ Content-based recommendation system tries to recommend items based on the similarity of users when buying, watching, or enjoying something.
- ☐ Content-based recommendation system tries to recommend items based on the preferences of people living in your area.
- ☒ All of the above.



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1 / 1 point

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✓ Correct