

3.Machine Learning (Week-3 to 4.3) - Set -3

Total points 15/15

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✓ What does a high variance in a model indicate?

1/1

- A) Model is too simple
- B) Model performs consistently
- C) Model is too sensitive to training data
- D) Model is underfitting



✓ What is the first step in any machine learning project?

1/1

- A) Training the model
- B) Data Collection
- C) Model Evaluation
- D) Deploying the model



✓ Which term best describes a model that performs well on training data but poorly on new data? 1/1

- A) Generalized
- B) Overfitted ✓
- C) Scaled
- D) Normalized

✓ Which method splits data into k equal parts for evaluation? 1/1

- A) Bootstrapping
- B) Hold-out validation
- C) k-Fold Cross-Validation ✓
- D) Grid Search

✓ What does a confusion matrix help with? 1/1

- A) Reducing dataset size
- B) Evaluating classification performance ✓
- C) Normalizing features
- D) Adding noise



✓ **What does K in K-NN stand for?**

1/1

- A) Kilobyte
- B) Knowledge
- C) Number of neighbors
- D) Kernel

✓ **What is overfitting?**

1/1

- A) Model performs poorly on training data
- B) Model performs well on both training and test data
- C) Model performs too well on training data but poorly on test data
- D) Model ignores training data

✓ **Which of the following is NOT a machine learning task?**

1/1

- A) Classification
- B) Translation
- C) Sorting files alphabetically
- D) Clustering



✓ **What is the purpose of feature selection?**

1/1

- A) To remove irrelevant features
- B) To improve data visualization
- C) To clean test data
- D) To generate output



✓ **In supervised learning, the data must contain:**

1/1

- A) Only input features
- B) No output values
- C) Labels or target values
- D) Only categorical features



✓ **Which algorithm is commonly used for classification tasks?**

1/1

- A) K-Means
- B) Linear Regression
- C) Decision Tree
- D) PCA



✓ Which term refers to adjusting the model's internal settings for better accuracy? 1/1

- A) Data Wrangling
- B) Feature Scaling
- C) Hyperparameter Tuning
- D) Normalization



✓ What does the term 'model accuracy' refer to? 1/1

- A) Time taken to run the model
- B) Percentage of correct predictions
- C) Amount of training data used
- D) Number of features used



✓ Which of these is a model evaluation technique for classification? 1/1

- A) R-squared
- B) Mean Absolute Error
- C) Confusion Matrix
- D) RMSE



✓ Which library is widely used in Python for machine learning? *

1/1

- A) Pandas
- B) NumPy
- C) Scikit-learn
- D) Flask



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