

# 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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