

Machine Learning Assignment-2

Total points 20/20 ?

Machine Learning quiz

The respondent's email (**paigauresh@gmail.com**) was recorded on submission of this form.

☐ Option 1

☐ Option 1

☐ Option 2

USN *

4JK22CS016

☐ Option 1

☐ Other:

Name *

Gauresh G Pai



✓ 1. What is Machine learning? *

2/2

- ☐ The selective acquisition of knowledge through the use of computer programs
- ☐ The selective acquisition of knowledge through the use of manual programs
- ☒ The autonomous acquisition of knowledge through the use of computer programs ✓
- ☐ The autonomous acquisition of knowledge through the use of manual programs
- ☐ Option 5

✓ What is the key difference between supervised and unsupervised learning?

*2/2

- ☒ Supervised learning requires labeled data, while unsupervised learning does not. ✓
- ☐ Supervised learning predicts labels, while unsupervised learning discovers patterns.
- ☐ Supervised learning is used for classification, while unsupervised learning is used for regression.
- ☐ Supervised learning is always more accurate than unsupervised learning.

✓ What elements describe the Candidate-Elimination algorithm? *

2/2

- ☐ depends on the dataset
- ☐ just a set of candidate hypotheses
- ☐ just a set of instances
- ☒ set of instances, set of candidate hypotheses ✓



✓ FIND-S algorithm ignores? *

2/2

- ☐ Positive
- ☒ Negative
- ☐ Both
- ☐ None



✓ K-Nearest Neighbors (KNN) is classified as what type of machine learning algorithm?

*2/2

- ☒ Instance-based learning
- ☐ Parametric learning
- ☐ Non-parametric learning
- ☐ Model-based learning



✓ Which algorithm is best suited for a binary classification problem? *

2/2

- ☐ K-nearest Neighbors
- ☒ Decision Trees
- ☐ Random Forest
- ☐ Linear Regression



✓ What is an Artificial Neural Network (ANN)? *

2/2

- ☒ A computational model inspired by the human brain
- ☐ A machine learning algorithm used for image processing
- ☐ A statistical analysis technique for data clustering
- ☐ A programming language for neural network implementation



✓ What is the purpose of the activation function in an ANN? *

2/2

- ☐ It determines the output of a neuron
- ☐ It introduces non-linearity to the network
- ☐ It enables the network to learn complex patterns
- ☒ All of the above



✓ What is the primary goal of clustering algorithms?

2/2

- ☐ To predict a target variable.
- ☒ To group similar data points together.
- ☐ To find the best linear fit for the data.
- ☐ To reduce the dimensionality of the data



✓ What is a key advantage of DBSCAN compared to K-means? *

2/2

- ☐ It requires specifying the number of clusters in advance.
- ☒ It can handle clusters of varying shapes and sizes.
- ☐ It is less sensitive to outliers
- ☐ It is computationally more efficient.



This form was created inside AJ Institute of Engineering & Technology.
Does this form look suspicious? [Report](#)

Google Forms



