

# Applied Data Science - Quiz 3

Name \*

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Registered Roll Number/Registered  
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B9-3A5E



Linear Regression is a machine learning algorithm based on

\*

- ☐ unsupervised learning
- ☒ supervised learning
- ☐ reinforcement learning
- ☐ none of these

Regression models a target prediction value based on

\*

- ☐ dependent variable
- ☒ independent variables
- ☐ independent value
- ☐ dependent value



Regression technique finds out a linear relationship between  $x$  (input) and  $y$  (output) hence it is called as \*

- ☐ Hypothesis function
- ☐ Related regression
- ☒ Linear Regression
- ☐ none of these

Which Machine Learning technique use for dealing Categorical data? \*

- ☐ Regression
- ☐ Classification
- ☐ Clustering
- ☒ All of the above

How do you choose the root node while constructing a Decision Tree? \*

- ☐ "An attribute having high entropy
  - ☐ "An attribute having largest information gain
  - ☒ "An attribute having high entropy and Information gain
  - ☐ None of the Mentioned
- 

Choose a disadvantage of decision trees among the following. \*

- ☒ Decision trees are robust to outliers
- ☐ Factor analysis
- ☐ Decision trees are prone to overfit
- ☐ none of these

What is the term known as on which \*  
the machine learning algorithms  
build a model based on sample  
data?

- ☐ Data training
- ☒ Training data
- ☐ Transfer data
- ☐ None of the above

Machine learning is a subset of \*  
which of the following.

- ☒ Artificial Intelligence
- ☐ Deep learning
- ☐ NLP
- ☐ None of the above

The father of machine learning is \*

- ☒ Geoffrey Everest Hinton
  - ☐ Geoffrey hill
  - ☐ Geoffrey chaucer
  - ☐ Micheal Geoffrey
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Suppose you got a training accuracy \*  
of 90% and a test accuracy of 50%.  
What happened with your model

- ☐ The model was over fitted with the training data
- ☐ The model was under fitted with the training data
- ☒ The model is absolutely fine
- ☐ None of the above