

### Applied Data Science - Quiz 3

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B6-6M2E

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

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

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