**SCSA3016 DATA SCIENCE**

**Assignment 2**

**Fill in the Blanks:**

1. [Machine learning is a subset of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_](https://www.onlineinterviewquestions.com/machine-learning-mcq/" \l "collapseUnfiled9)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_algorithms enable the computers to learn from data, and even improve themselves, without being explicitly programmed.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the type of learning in which labeled training data is used.
4. The number of components in Bayesian network is \_\_\_\_\_\_\_\_\_\_\_\_\_
5. The purpose of performing cross-validation is\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Short Questions:**

1. Interpret the types of Machine Learning?
2. List the approaches of dimensionality reduction?
3. Interpret PCA
4. Define Neural Network and mention its components
5. Interpret Confusion Matrix

**Long Questions:**

1. Explain about different types of machine learning algorithms with an example?

**Instructions:**

1)Use A4 sheets for writing your assignments

2)Scan and send your assignment in any format preferably pdf and upload correct document 3) Save your assignment in file name(Register Number\_Name)eg: (39110018\_AARUSH)

4)For fill ups just write the answer alone