

### Task 1: Machine Learning Algorithms

Select one or more choices from the list of common Machine Learning Algorithms, do some investigations and write me a short summary.

- Linear Regression
- Logistic Regression
- Decision Tree
- SVM (Support Vector Machine)
- Naive Bayes
- KNN (K- Nearest Neighbours)
- K-Means
- Random Forest

I am looking for the following:

1. Is it Supervised/Unsupervised/Reinforcement learning?
2. What does the algorithm do?
3. In which situations will it be most useful?
4. (Optional) Can you find any examples of where this algorithm has been used?

This task is to help you start revising for your BCS exam What is Machine Learning. The more ML algorithms you research the better prepared you will be for the exam.

#### Marking criteria Task 1

	Pass	Merit	Distinction
Code	<ul style="list-style-type: none"><li>• Writes a short summary of one of the machine learning algorithms</li></ul>	<ul style="list-style-type: none"><li>• Writes a summary of all machine learning algorithms</li></ul>	<ul style="list-style-type: none"><li>• Completes the optional task of researching an example of where the algorithm is used for all algorithms</li></ul>