In [1]:
```
# 1. What are the three stages to build the hypotheses or model in machine learnin
```

In [2]:
```
# The three stages to build the model in machine learning are:

# 1. Model Building: Model Building involves in Data preparation, Traning set gene
# indulge in Algorithm training.

# 2. Model Testing: Model testing involves in prediction and evaluation of Test da

# 3. Applying the model: It deals with the Deployment of data set and Monitoring t
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In [3]:
```
#2. What is the standard approach to supervised learning?
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In [4]:
```
# Ans: The standard approach to supervised learning is to split the set of example
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In [5]:
```
# 3. What is Training set and Test set?
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In [6]:
```
# 1. Training set:

# Training set is a data set used to train the model.

# Specific features are picked up from the training set for training purpose.
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In [7]:
```
# 2. Test set:

# Test set is a data set used to measure how well the model performs at making pre
# the training.
```

In [8]:
```
# 4. What is the general principle of an ensemble method and what is bagging and b
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In [9]:
```
# Ans: Ensemble learning is used when you build component classifiers that are mor

# The general principle of an ensemble method is to combine the predictions of sev
# algorithm in order to improve robustness over a single model.Bagging is a method
# estimation or classification schemes.
# While boosting method are used sequentially to reduce the bias of the combined m
# errors by reducing the variance term.
```

In [10]:
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# 5.  How can you avoid overfitting ?
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In [ ]:
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# Ans: The possibility of over-fitting exists as the criteria used for training th
#      judge the efficacy of a model.

# By using a lot of data over-fiting can be avoided, over-fitting happens relativ
# learn from it. But if you have a small database and you are forced to come with
# can use a technique known as cross validation.

# In this metod the dataset splits into two section, testing and training datasets
# while in training dataset, the data points will come up with the model.

# In this technique, a model is usually given a dataset of a known data on which t
# dataset of unknown data against which the model is tested. The idea of cross val
# model in the training phase.
```