In-Class-1

Madhu Peduri

1. List the input features to the Machine Learning model
   - sepal-length
   - sepal-width
   - petal-length
   - petal-width

2. List the output classes of the object.
   - Iris-setosa
   - Iris-versicolor
   - Iris-verginica

3. Describe how we might train the Machine Learning model
   - For this dataset, object classes were pre-defined.
   - So, we can use one of the supervised to predict the class.
   - We divide the dataset in to Train and Test subsets.
   - Train the selected model using Training subset and
   - validate the performance on the Test subset.

4. Because no Machine Learning model can classify objects perfectly, describe how we might measure how accurate various ML models solved the problem.

   As this is a classification problem, using our Model

   - Predict the class for each set of observation.
   - Compute the number of correct and incorrect predictions.
   - Derive the accuracy by computing the percentage of correct predictions.
   - We can further use below counts to derive corresponding metrics.
     - True positives
     - True negatives
     - False positives
     - False negatives