This week we will cover very important concepts, and they are a bit difficult and lengthy. You have to go through all of the ressources and then we will take a class at the end of the week to teach/solve your doubts.

1. Firstly go through hypothesis testing

<https://youtu.be/0oc49DyA3hU> <https://towardsdatascience.com/hypothesis-testing-in-machine-learning-using-python-a0dc89e169ce> <https://towardsdatascience.com/hypothesis-testing-with-python-step-by-step-hands-on-tutorial-with-practical-examples-e805975ea96e>

1. Decision trees: Go through the entire blog i.e. all the headings <https://www.geeksforgeeks.org/decision-tree-introduction-example/?ref=lbp>

<https://www.w3schools.com/python/python_ml_decision_tree.asp>

1. Cluster Analysis : <https://datascience.com.co/what-is-cluster-analysis-336362f15ed0> Go through the links mentioned at the end of the article (it is also a part of resource)

<https://builtin.com/data-science/data-clustering-python>

1. <https://www.coursera.org/learn/machine-learning-course/home/week/8>

Go through the week 8 of the Course. You are also advised to explore the course.

1. Association Rule: <https://www.geeksforgeeks.org/association-rule/>

<https://www.kdnuggets.com/2016/04/association-rules-apriori-algorithm-tutorial.html>

Additional resourceful blogs :

<https://www.johnwittenauer.net/machine-learning-exercises-in-python-part-1/>

<https://www.kaggle.com/code/bulentsiyah/machine-learning-exercise/notebook>