

School of Computer Science and Engineering, VIT Chennai.

BCSE209P Machine Learning

Lab-5 Decision Tree

Faculty : Dr. R. Jothi

**Due Date : 12/02/2024**

Submit your python code (Jupyter notebook): with output for all the questions.

You are asked to design a machine learning model to decide which crop can be grown in a particular farm based the farm characteristics such as rainfall, Nitrogen and Phosphorous values of soil etc.

Apply decision tree algorithm for crop suggestion.

1. Compare the accuracy with both entropy and gini index for attribute selection
2. Verify whether both metrics result in same decision tree by drawing tree upto a depth level 2.