

Assignment # 3

Due by December 24, 2024

Q.1. Implement the decision tree classifier using ID-3 algorithm for the Mushroom Dataset (agaricus-lepiota.data) provided within the assignment folder. I have also included a PDF file containing useful description of the dataset downloaded from the following link: <https://archive.ics.uci.edu/ml/datasets/mushroom>. Use 80/20 split to create Train/Test sets and report the performance of your model. Moreover, use appropriate measures to handle attributes with missing values.

Q.2. Implement a random forest classifier for the classification problem in Q.1. Use the square root of the total features (rounded up) to induce individual trees.

Important Note:

Submit a hardcopy of your assignment by the deadline through CR.