

Project 1

Deadline: Monday, February 21

Before you start the project, please see me or email me and tell me about your problem and dataset.

In the class, we showed that Decision Tree (DT) and Naïve Bayes (NB) can map some X (some features/ attributes) to Y (some output).

In this project, you define a problem (of course with available dataset) and implement DT and NB to learn to map X (input) to Y (output) in your problem. You will write a short report (4 pages max with Times New Roman 12) explaining the problem, dataset, and results. Please compare the performance of DT and NB, and explain why the models are doing a good or a bad job.

- The teams can have 1 or 2 members.
- Please write your code in Python
- For the DT, you can use a Python Package/Toolbox; however, you cannot use any packages or toolbox for the implementation of NB. If you use a package for DT, please briefly explain what each method call is doing in your code.
- Using Tables and Figures can help me understand the problem and results better.