

DSCI – 633

Foundations of Data Science and Analysis

HW 1

Problem: Write python code for a Naïve Bayes machine learning model using the iris dataset (link provide in google colab).

Link: <https://colab.research.google.com/drive/1PLEd8okoY8MUidWMuZ6NJdJVuc4Js3ww?usp=sharing>

Note: You cannot use existing Scikit learn libraries for the naïve bayes model. You can use them only to validate your own model (do not include this in your submission). Only Math libraries are allowed. *Code commenting required.*

Deadline: September 11, 11:59pm

Implementation and Submission:

Use Google Colab for implementation and submit the link in MyCourses under Assignment section. Add your official name & RIT email address to the co-lab book. Share them with anyone at RIT as editor so both me and the TA can access them.

Follow up Questions: Post on slack channel or discuss with TA – Bharadwaj, in his office hours or my office hours.

Grading Rubric:

Competent Performance	Acceptable Performance	Mediocre Performance	Low Performance	No Performance
All program runs as required with provided accuracy.	A small number of minor problems, e. g. issues in predicting class probabilities.	Coding of model might have error in logic OR Code does not run, but logic is correct.	Basic programming done, data extracted using the right commands, included head() and describe(), train() and test () commands	None of the objectives are achieved
(10 points)	(8 points)	(6 points)	(4 points)	(0 points)

Note: Copying or plagiarism from anywhere (including generative AI models) will lead to a swift 0 credit for the assignment.