# Task 1

**Project:** IRIS FLOWERS CLASSIFICATION

**Dataset:** IRIS FLOWER DATASET

**Dataset Link**: <https://archive.ics.uci.edu/dataset/53/iris> OR https://www.kaggle.com/datasets/uciml/iris

**DATAFILE NAME**: iris.data OR iris.csv

**Objective:** The objective of this project is to perform classification on Iris flower dataset. Conduct the necessary data preprocessing steps to ensure the dataset's cleanliness and readiness for analysis and training. Add comments where you find it relevant to describe the steps.

Perform data visualization and provide insights from it. Train at least two or three different classification models.

Provide a conclusion summarizing the tasks executed. Emphasize key findings, outcomes, and any relevant observations from data preprocessing, visualization, and model training.

**Deadline:** 5th August

**Code Submission:**

We understand the importance of showcasing your work and documenting your projects effectively. To ensure a smooth submission process, please follow the instructions below:

a. **Organize your code:** Once you have completed your project, organize all the relevant code files into a single folder or repository. This will help us review your work efficiently.

b. **README file:** Include a "README.md" file that provides a clear and concise explanation of your project. This file should outline the purpose of your project, the technologies used, any dependencies or setup instructions, and how to run or test your code.

c. **Screen recording (screencast):** Record a screen capture video that demonstrates the functionality of your project. The video should be between 5-10 minutes long and showcase the key features and functionality of your code. Use any screen recording tool of your choice (you may use freecam8, it is light and has a simple interface which will get your work done) to create the screencast.

d. **Submission format:** Once you have completed the above steps, compress the entire folder or repository containing your code, README file, and screencast into a single zip file.

e. **Submission process:** Email the zip file as an attachment to [submission email]. In the email, include a brief description of your project and mention that it is your final submission.

Please ensure that your code is well-commented, follows best practices, and is organized in a logical manner. We value clean and maintainable code.