# DA 312, ADVANCED MACHINE LEARNING LABORATORY LAB 2 (SPRING 2025)

Instructor: Dr. Chiranjib Sur Time: Wednesday - 9:00-11:00 (MDSAI Lab)

Email: chiranjib@iitg.ac.in Place: MDSAI Lab.

## Problem 1: [20+40+40 marks]

### **Example Code with Dataset**

Dataset: Heart Disease Prediction

- Task: Predict whether a patient has heart disease.
- Dataset URL: UCI Machine Learning Repository
- Framework: TensorFlow/Kerashttps://colab.research.google.com/drive/113YdcI\_D10HvzaaRETix2GcW0usp=sharing
- Run this code

#### **Dataset 1: Banknote Authentication**

- Description: Predict whether a banknote is authentic or forged.
- Dataset URL: https://archive.ics.uci.edu/ml/machine-learning-databases/00267/data\_banknote\_authentication.txt
- Modify the above code for this dataset.

#### **Dataset 2: Titanic Survival Prediction**

- Description: Predict whether a passenger survived or not.
- $\bullet \ \ Dataset \ URL: \verb|https://raw.githubusercontent.com/datasciencedojo/datasets/master/titanic.csv| \\$
- Modify the above code for this dataset.