☢ Please do not use ChatGPT to complete these tasks. ☢

Please read every question carefully if you have any type of problem please email: aesrnd03@gmail.com

Task 1: Load the data ……

1. Do EDA analysis and make a report of the data analysis.
2. Apply t-SNE algorithms and generate a graph.
3. Apply Machine Learning algorithms for predictive analysis.

Dataset Description:
The training set.

- Id Unique identifier for each observation.
- AB-GL Fifty-six anonymized health characteristics. All are numeric except for EJ, which is categorical.
- Class A binary target: 1 indicates the subject has been diagnosed with one of the three conditions, 0 indicates they have not.

[We have test data we will test your algorithms on your code so please comment.]

Task 2: Multiclass classification

1. Load the data (you can apply PyTorch or TensorFlow framework we prefer to use your own custom data loader)
2. Make a custom CNN model for classification.
3. Use transfer learning for classification
4. Make a comparison of your model and the transfer learning model.
5. Dataset link: https://www.kaggle.com/datasets/yousefmohamed20/oxford-102-flower-dataset

Task 3: Apply Feedforward and backward operation:

Assume that you have two inputs node x1 =.5, x2 =.6, w1= 1, w2=1, and activation function sigmoid apply feedforward and backward operation of a neural network.

☢ Please do not use ChatGPT to complete these tasks. ☢