

Machine Learning Assignment 1 (Individual)

Description of the assignment:

General idea:

In this assignment, you are required to Apply weighted KNN, KNN and Naïve-Bayes to classify the Gas Sensor dataset by dividing it into 70% training set and 30% test set.

, Then evaluate the performance of KNN , weighted KNN and Naïve-Bayes using the accuracy and Cross validation Evaluation, and justify the results .

The requirements:

- Gas Sensor Dataset
- Apply KNN ,weighted Knn and Naïve-Bayes Algorithms to classify Dataset
- Evaluate the performance
- Apply Cross validation

Guidelines:

- ➔ The assignment should be implemented using Colab.
- ➔ This is an **INDIVIDUAL** assignment. Cheating cases will lead to a **ZERO**.
- ➔ This assignment is worth 10 degree for your discussion
- ➔ Deadline for the assignment: Each Group in your lab

There will be an individual discussion on your task in the lab , so please bring the laptop with you.