# K-Nearest Neighbors

- Just like the decision tree, K-Nearest Neighbour(KNN) is another widely used classification algorithm.
- For this part you will be walking through the intuition behind KNN and the math used for its implementation and finally implement the KNN algorithm using scikit-learn on the weather dataset provided to you previously for the best possible value of ***k*** to achieve maximum possible accuracy.
- Use results from your previous data clearing and visualization and using the resources provided understand and implement the KNN algorithm using scikit-learn.
- The deadline for checkpoint 7 is **27th Jan  2023, 11:00 pm.**

***Resources:***

- KNN Intuition : 1.6. Nearest Neighbors — scikit-learn 1.2.0 documentation
- Scikit-learn documentation : sklearn.neighbors.KNeighborsClassifier — scikit-learn 1.2.1 documentation
- Math behind KNN and its implementation from scratch for better understanding (no need to implement):
  KNN (K Nearest Neighbors) in Python - Machine Learning From S...
- KNN Implementation in scikit-learn :
  Machine Learning Tutorial 13 - K-Nearest Neighbours (KNN algori...

📚 Happy Coding 📚

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