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Antriksh Kukreti

MCA3c

2001034

## **ML-Practical**

Ques01-A folder "dataset" consists of a file pollution.csv, representing the air pollution data. You have to perform the following tasks on that:

- i. Data Exploration (with the help of different kinds of Plots)
- ii. Split the dataset in such a way that 80% is kept for training purpose and 20% is kept for test purpose. Build a Decision Tree, SVM and KNN models to classify categories of "AQI Column" and report the model performance on the test dataset with accuracy.

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fimport pandas as pd
from pandas import read_csv
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_absolute_error
# load dataset
detaframe = pd.read_csv("pollution.csv")
data = dataframe.values
# split into inputs and outputs
X, y = data[:, :-1], data[:, -1]
print(X.shape, y.shape)
# split into train test sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, random_state=1)
print(X_train.shape, X_test.shape, y_train.shape, y_test.shape)
```

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