Machine Learning and Fintech Hw on PCA. Due 2020/11/09

**In this homework assignment, you will download the dataset on NewE3 “AirQualityUCI” to solve the following problems.**

The explanation of variables can find in the resource：<https://archive.ics.uci.edu/ml/datasets/Air+Quality>

Analysis the data by Principal Component Analysis.

1. Please do a simple EDA for the dataset.
2. Do the principal components analysis with 2 components.
3. According to the result of Q2, visualize it into 2D projection.
4. Use scree plot to choose the number of principal components, and illustrate how you choose clearly.
5. According to the Q4, rebulid the model by the principal components you choose.