

Activity 3

Unsupervised-learning

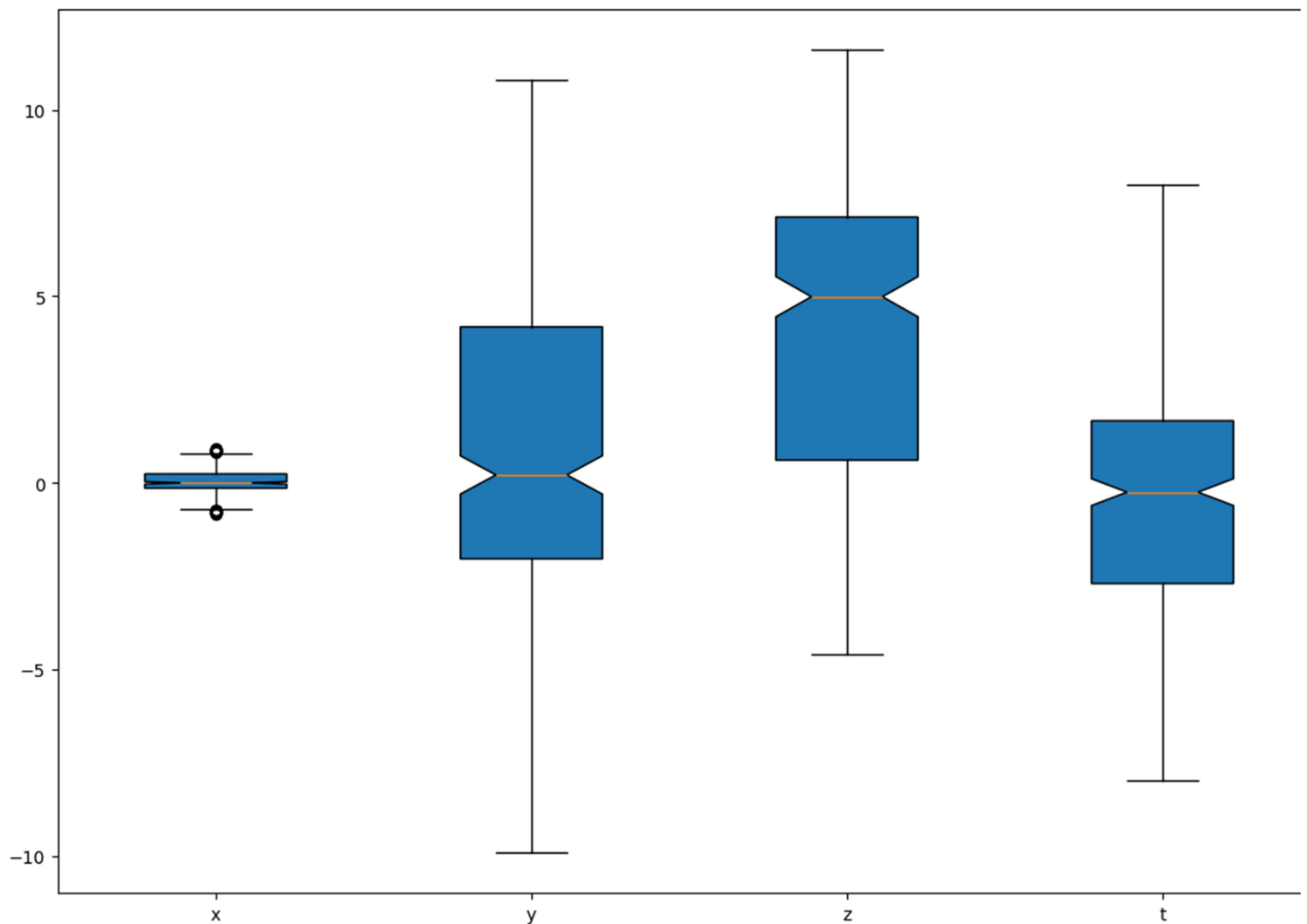
- **Git Repository**

<https://github.com/YoussefEzz/Unsupervised-learning>

- **Part 1 : Selecting and analyzing the datasets**

a) A3-data.txt analyzed and preprocessed in A3-data.ipynb

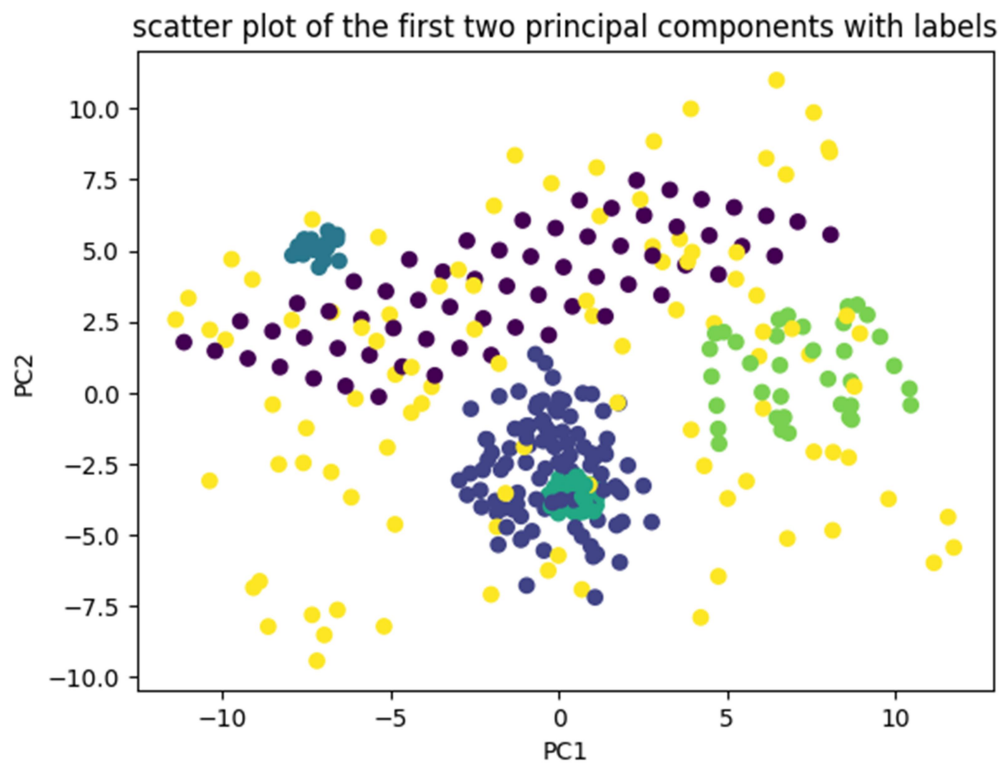
- Features:** 4 variables(**x, y, z, t**) of type float, 1 class of type integer(labels 1 : 5)
- Patterns:** 360 patterns



- **Part 2: Comparing unsupervised learning algorithms for A3-data.txt**

- a) PCA analysis

a colored scatter plot of the first two principal components



Scree plot of explained variance and no. of principal components

