

# Assignment 1: Machine Learning- Clustering

1. The project is for a group of 3-4 and accounts for 15% of your mark.
2. Deadline is the end of week 6.
3. You need to submit a detail report of your step by step implementation choices and interpretation of the output along with the project code.
4. For this project you should use a dataset called Adult in below repository. This project is originally has been developed for classification but, we want to use it for clustering.

(<https://archive.ics.uci.edu/dataset/2/adult>)

1. Your job is to use any clustering method necessary and discover any interesting pattern in this dataset.
2. The following shows the structure of you report:
3. Executive Summary
4. Explanation of pre-processing steps with associate graphs
5. Clustering methods and results and graphs
6. Discussion of quality of clusters
7. Discussion of patterns discovered
8. Conclusion

When you discussion on patterns must be based on evidence (clusters, figures, charts).

Marking criteria:

The project will be marked based on effort and strength of its discussions.

1. Executive Summary ------------------------------------------------------------------ 5 marks
2. Explanation of pre-processing steps with associate graphs ---------------- 10 marks
3. Clustering methods and results and graphs ------------------------------------ 10 marks
4. Discussion of quality of clusters -------------------------------------------------- 15 marks
5. Discussion of patterns discovered ----------------------------------------------- 15 marks
6. Conclusion ----------------------------------------------------------------------------- 5 marks