CSE 472

Machine Learning Sessional Offline 4 Report

Submitted by:

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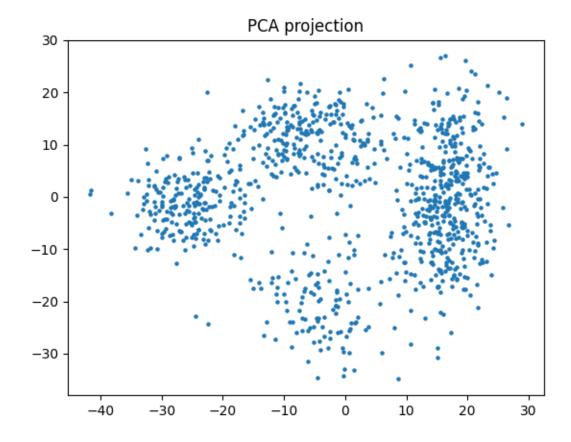
Roll: 1905014

Section: A1

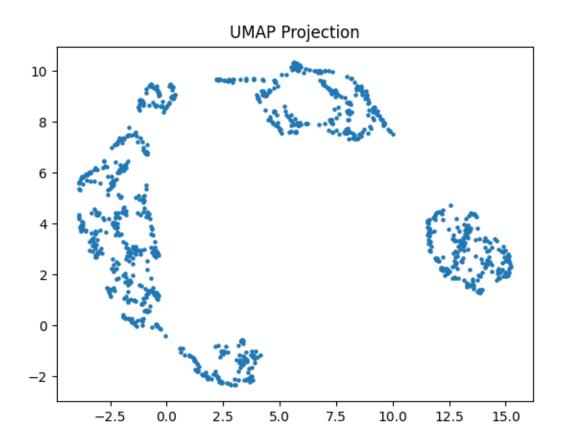
To run the code:

- Make sure numpy and matplotlib are installed.
- Install UMAP by 'pip install umap-learn' command in terminal.
- Install sklearn by 'pip install scikit-learn' for t-SNE.
- Run command 'python 1905014.py' from terminal from the folder containing the file.

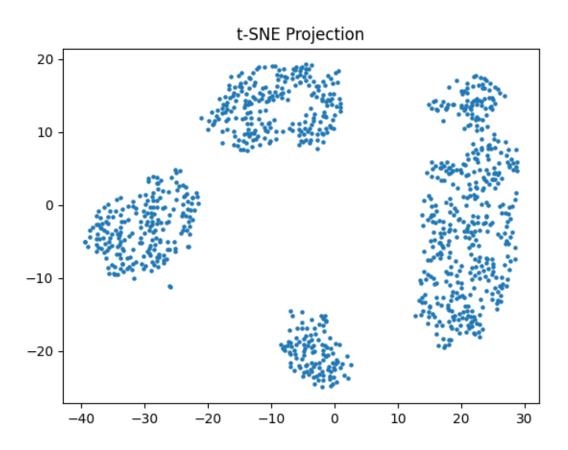
PCA:



UMAP:



t-SNE:



EM:

Estimated number of children of families with family-planning: 1.79

Estimated number of children of families without family-planning: 4.91

Proportion of families without family planning: 0.36

Proportion of families without family planning: 0.64