PCA_EM_Report

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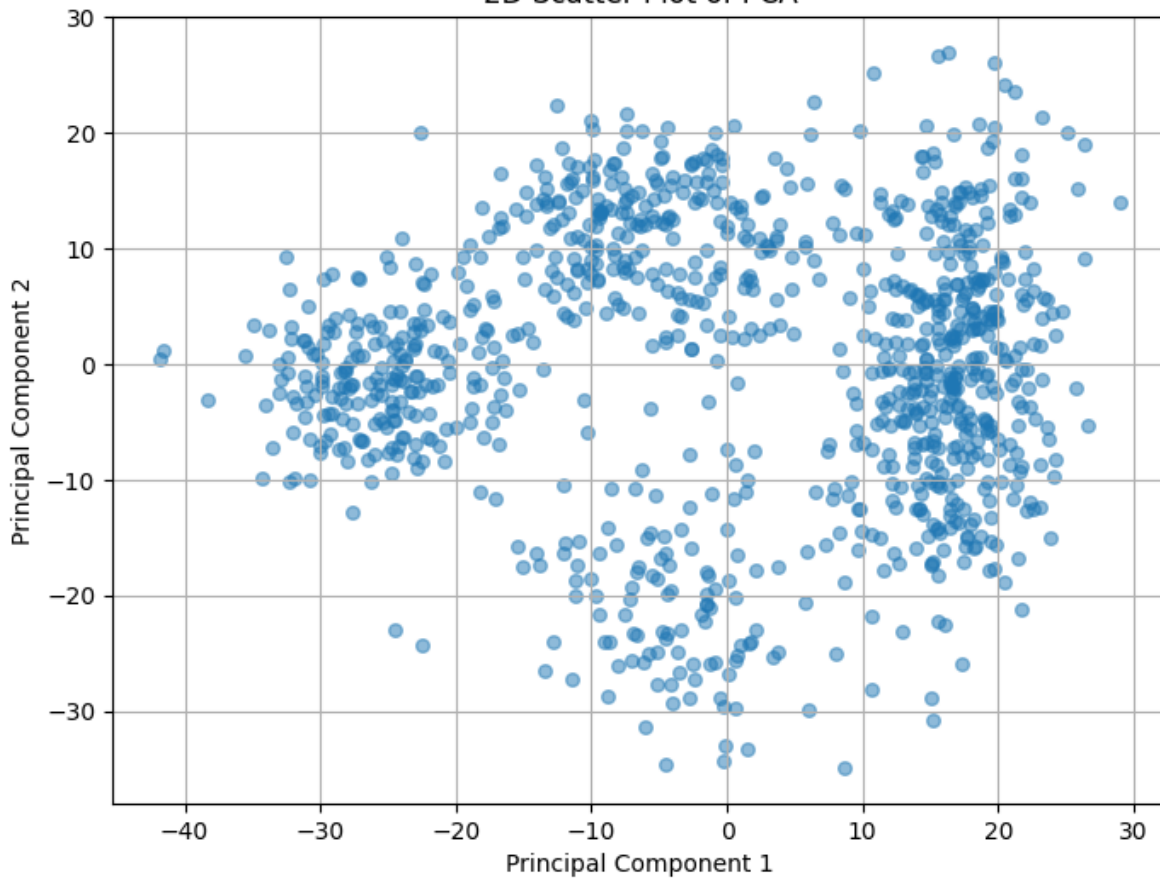ID: 1905021
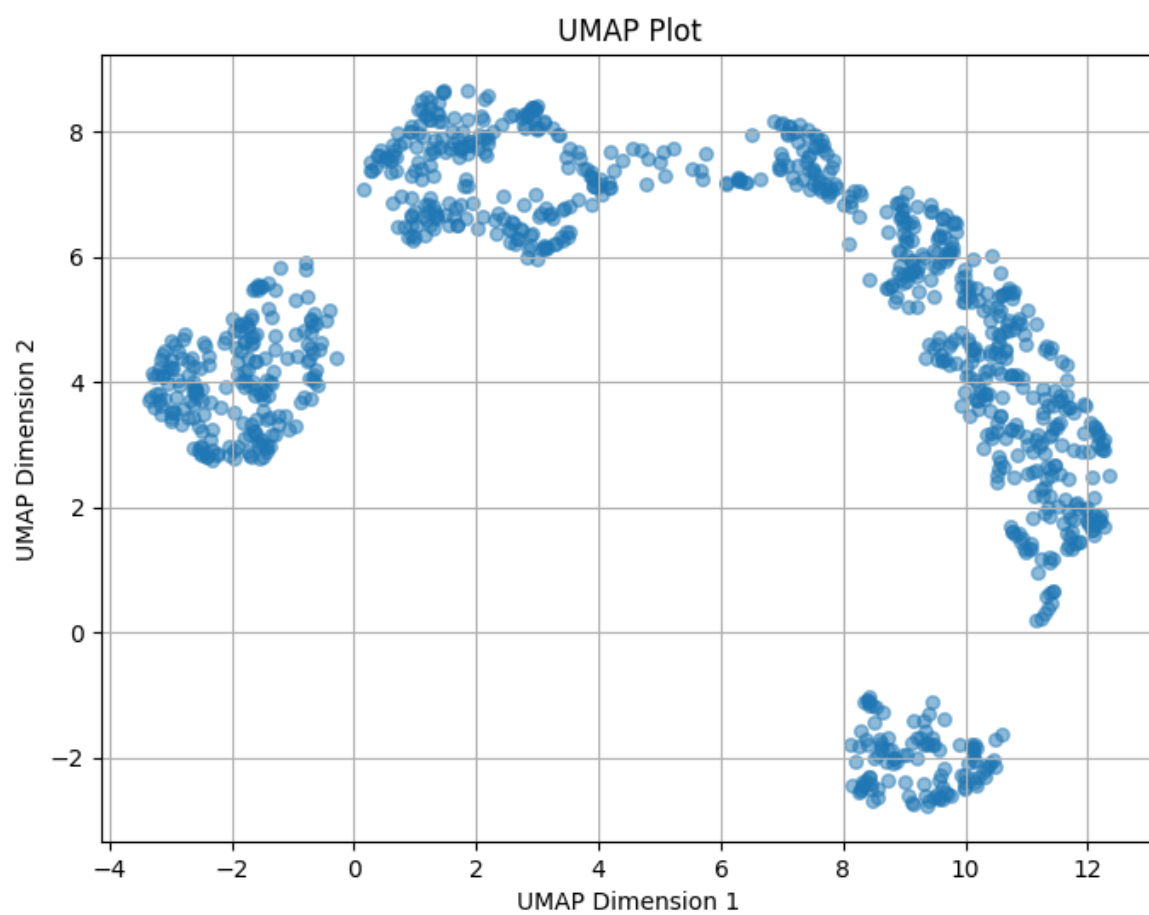ML Assignment 4 on PCA and EM

To Run the code:
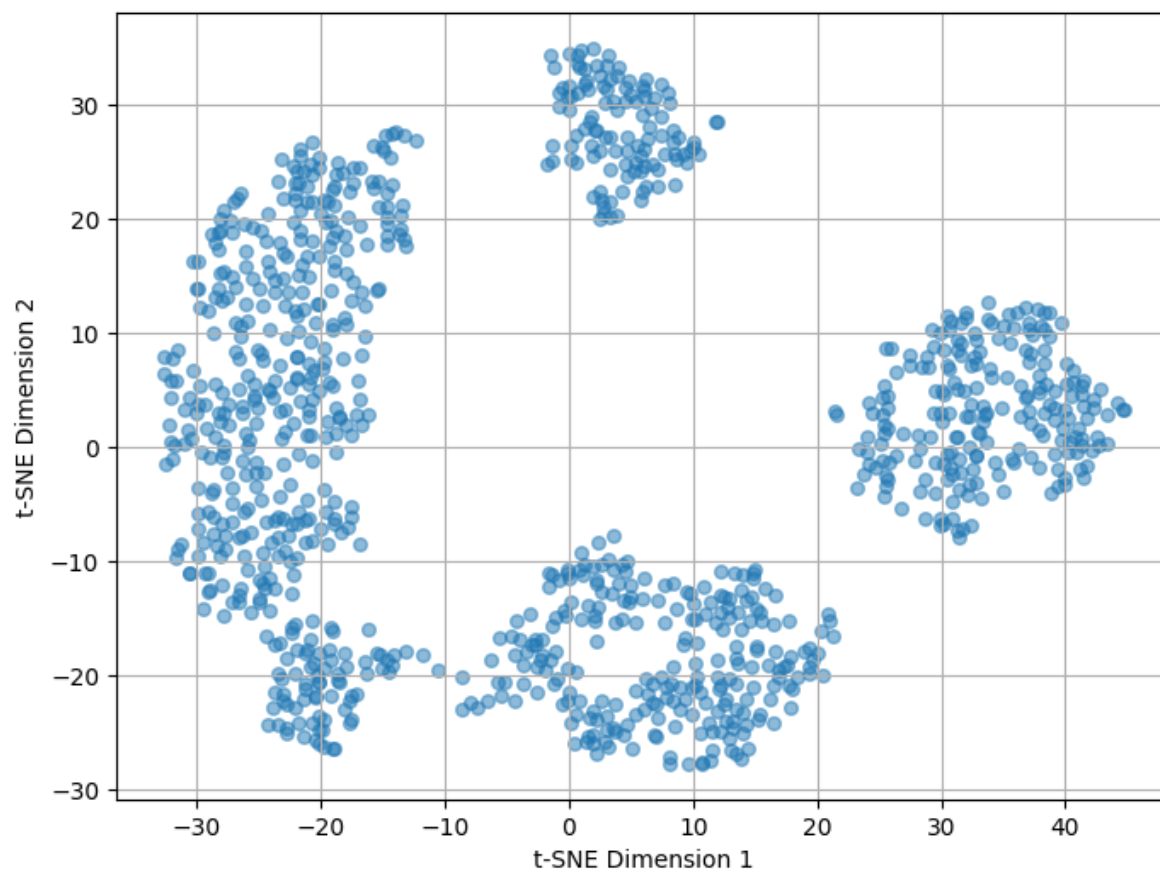i. It can be run of kaggle, on local machine (necessary libraries
should be installed), and google colab.
ii. python3 1905021_PCA_EM.ipynb

2D Scatter Plot of PCA

UMAP Plot

t-SNE Plot

EM Reports:

The Estimation converged after 99 iterations.

Estimated Parameters for EM:

Mean number of children (Family Planning): 1.78

Mean number of children (No Family Planning): 4.91

Proportion of families with Family Planning: 0.36

Proportion of families without Family Planning: 0.64