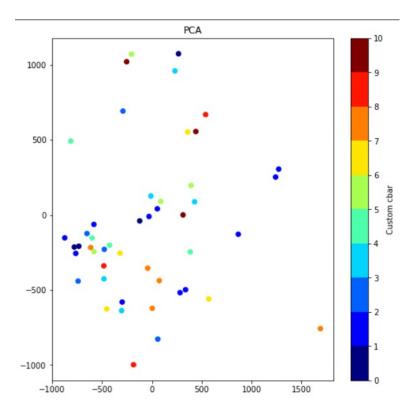
Mid Evals - SMAI

Team Number: 55 | Team Bash Party

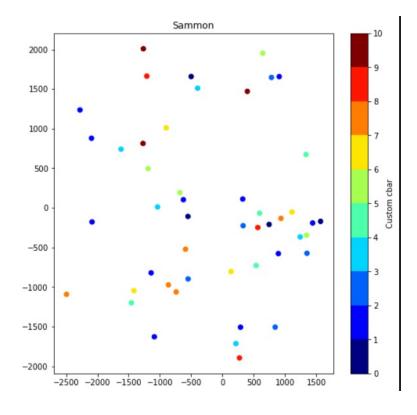
- Keshav Bajaj (2019115010)
- Tejasvi Chebrolu (2019114005)
- Naman Ahuja (2019101042)
- B Vaibhaw Kumar (2019112021)

Work Done till Now

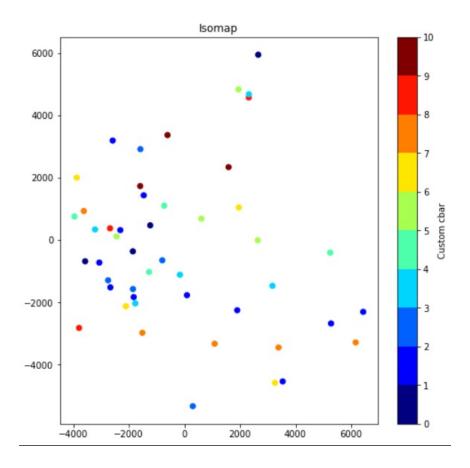
- Literature Survey: We explored and studied about different dimensionality reduction techniques that used for transforming and visualizing high dimensional data.
- Ran PCA, Sammon, Isometric Mapping on MNIST and Olivetti Faces datasets for dimensionality reduction.
 - MNIST and Olivetti Faces
 - Reduced the initial 784 dimensions to 2 using Principal Component Analysis (Visualization shown below)
 - MNIST Dataset (subsample of 100 points reduced to 2 dimensions using PCA)



- Reduced the initial 784 dimensions to 30 using PCA
 - Sammon Mapping to reduce 30 dimensions to 2 for visualisation

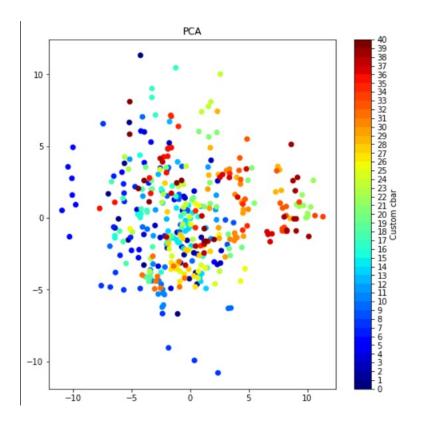


Isometric Mapping to reduce 30 dimensions to 2 for visualization



Olivetti Dataset

• Ran PCA on Olivetti Dataset to reduce 4096 dimensions to 2 (sub sample of 600 data points)



• Ran PCA to reduce 4096 dimensions to 30 . Then ran sammon and isometric mapping for visualization.

