

A PCA plot showing the distribution of data points across three sets: Training Set (blue), Test Set (Class 9) (green), and Test Set (Other Classes) (red). The x-axis is labeled 'PC1 (51.18% variance)' and ranges from -0.3 to 0.1. The y-axis is labeled 'PC2 (25.82% variance)' and ranges from -0.1 to 0.2. The plot shows a dense cluster of points centered around PC1 = 0.0 and PC2 = 0.0. The Training Set (blue) is the most numerous and forms the core of the cluster. The Test Set (Class 9) (green) is interspersed within the Training Set cluster. The Test Set (Other Classes) (red) is more scattered, with several points located at the periphery of the main cluster, particularly at lower PC2 values and lower PC1 values.

