

**FIRST LAST NAME**

**Math 5750/6880: Mathematics of Data Science**

**Project #2 Final Report**

**October 10, 2025**

Template instructions: in this L<sup>A</sup>T<sub>E</sub>X template, you can delete text in this gray color after reading. You should replace any text in blue color with your personal information. Of course, after replacement, you can change the text to regular black color text.

My GitHub Project2 repository is located here:

<https://github.com/math-data-science-course/Project2>

1. CLUSTERING GAUSSIAN BLOBS USING K-MEANS

Your solution goes here.

2. CLUSTERING FASHION-MNIST USING K-MEANS

Your solution goes here.

3. DIMENSIONALITY REDUCTION FOR FASHION-MNIST

Your solution goes here.

4. CLUSTERING FASHION-MNIST USING SPECTRAL CLUSTERING

Your solution goes here.