Problem three

For this problem I used Python as well as the libraries numpy, matplotlib, and scipy to interpolate a collection of two-dimensional data. I ended up using a bilinear spline Rbf from scipy to interpolate data between the given data. Then I plotted the resultant data using matplotlib.

In the course of solving this problem, I applied a few math concepts from classes. I also made a few mistakes early in setting the dimensions of my resultant data set, defining it beyond the scope of the given data. However, my math training led me to notice discrepancies due to extrapolation, allowing me to notice the mistake.