Curve Fitting Example:

1. Generate x coordinates between 0 and 1 (x = linspace (0.0, 1.0, n))
2. Generate random noise to add to y (random.seed(20); noise = random.normal(0, 0.25, n))
3. Compute y that results from the straight line y = -2\*x+3
4. Add the random noise to y
5. Compose the coefficient matrix A that contains the x values as the first dim and ones on the second dim)
6. Transpose A
7. Use the linalg.lstsq method to fit the parameters a and b in the line a\*x + b (result = linalg.lstsq(A,y))
8. Results contains 4 tuples with the best fit as the first one, followed by the sums of residues, array rank, and singular values of a as the last one
9. Plot the data, the exact line, and the fitted line using the matlibplot functions