- Write a Matlab function c = linear_regression(x,y) that computes the coefficients of the line that fits the input points (x_i, y_i), i = 1,..., in the least squares sense. Compute the coefficient vector c by solving the system of normal equations.
- Test the above function on the data in the file least_squares_data.mat. Make a graph that representing the data points and the line.
- Write another function c = quadratic_regression(x,y), similar to the previous one but where a polynomial of degree 2 is used for the fitting. Plot again the results for the data points above.

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