Laboratory 2 — Pattern Recognition (EC-416)

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Overview

Fit a Curve to the given data using Gaussian Curve Fitting. Fit a function

$$h_\theta(x) = x_0 + \theta_1 x + \theta_2 x^2 + \cdots + {}_n x^n$$

Refer Section (1.2.5) of the book Pattern Recognition and Machine Learning by Bishop.

Data

Download the data from this link.

Submission Format

1. You can use either Python 3 or MATLAB/Octave to solve this assignment.

2. This is a programming assignment and nothing needs to be hand written.

3. The code of this assignment must be submitted as a project in a zip file with clear instructions on how to run the main file or it can even be a Jupyter Notebook with clear code + output.