CS 6301 - Machine Learning Lab

Date: 21.03.22

Spot question

1. Implement Polynomial Regression?

Assume that there is only one independent variable x. If the relationship between independent variables x and dependent or output variable y is modeled by the relation,

$$y=a+a_1*x+a_2*x^2+....+a_n*x^n$$

for some positive integer n > 1, then we have a polynomial regression. Plot your results for the following equation

$$y=a+a_1*x+a_2*x^2$$

$$x=3,4,5,6,7$$

The values of a_1 , a_1 , and a_2 can be assumed: