

Andrew Bechdolt
EE 291
Dr. Livani
29 November 2019
Project 2

Part 1:

a) Regression Model Parameters:

Intercept: 174.1883

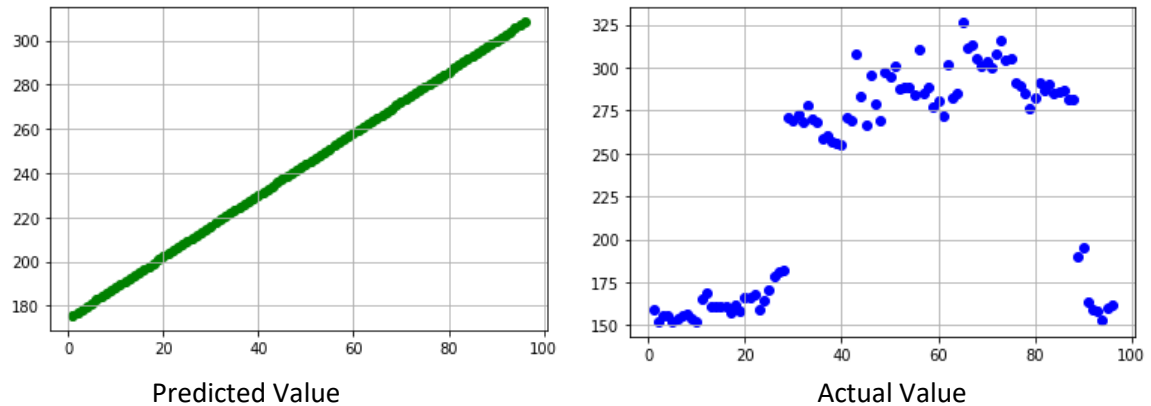
Coefficient: 1.3968

b) Total Squared Error of prediction for day 2

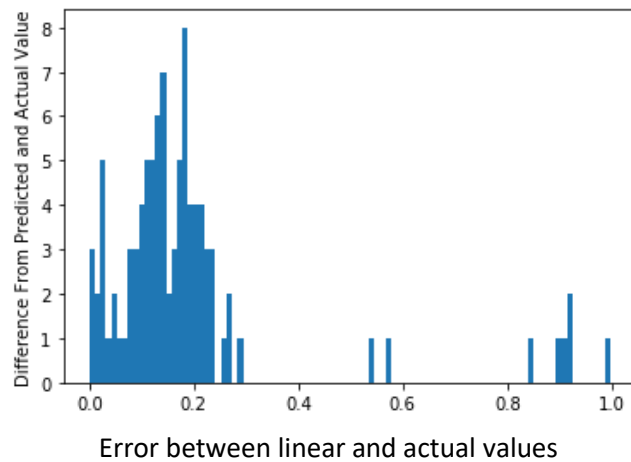
a. Squared error of Prediction

Total Squared Error = 2726.13931

c) Predicted vs Actual values of Electricity Consumption

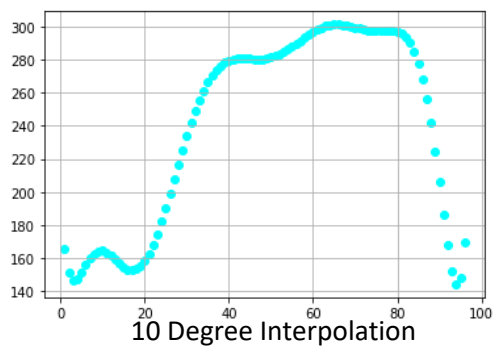
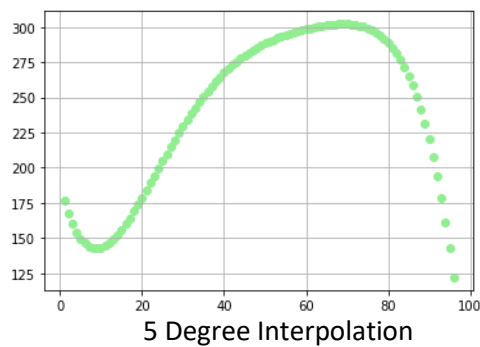
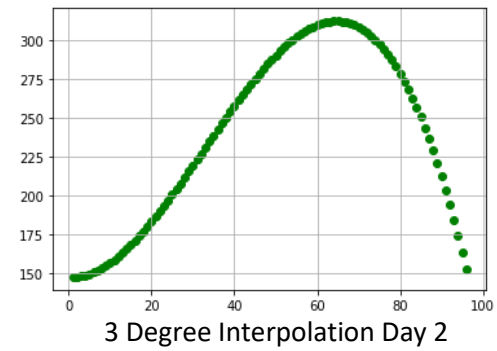
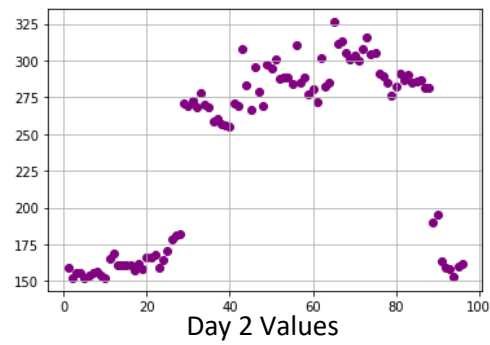
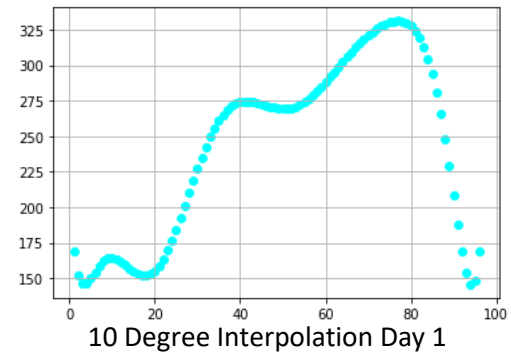
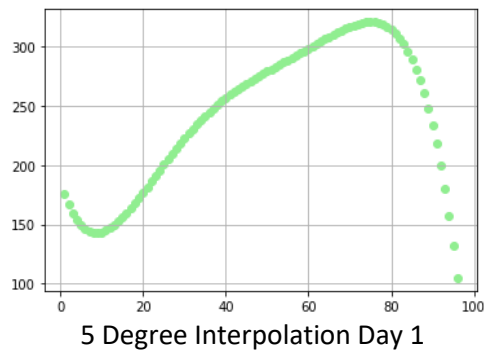
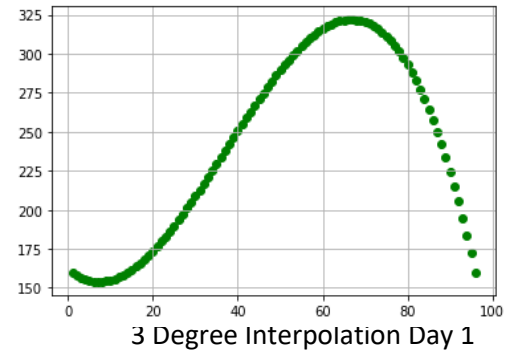
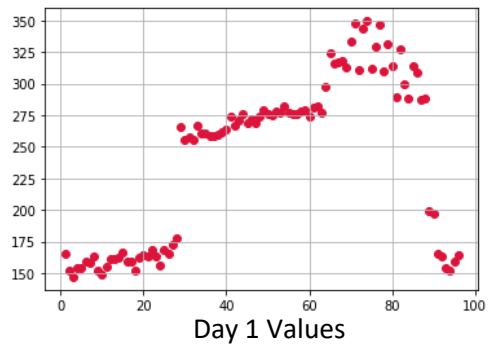


d) Error between predicted and actual values of consumption



Part 2:

a) Predicted and actual values of consumption



b) Total squared error for day 2

3 Degrees

Total Squared Error = 498.480247657023

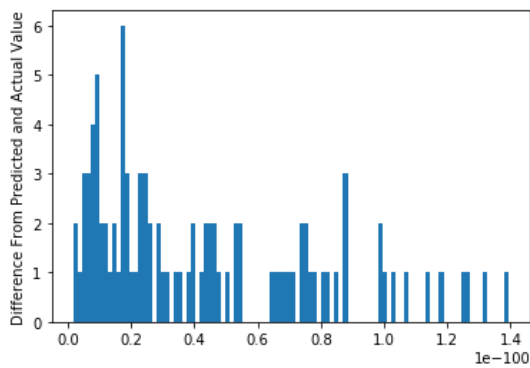
5 Degrees

Total Squared Error = 390.65167724405757

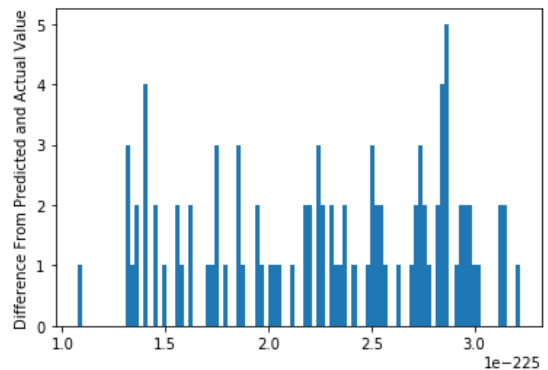
10 Degrees

Total Squared Error = 240.64122075006279

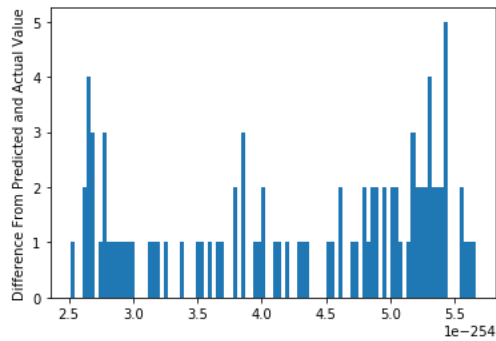
c) Histogram of error between predicted and actual values



Histogram of Error 3 Degrees



Histogram of Error 5 Degrees



Histogram of Error 10 Degrees