Machine Learning Assignment 2
Maysoon Helmy Abdelrahman Aly Shaban
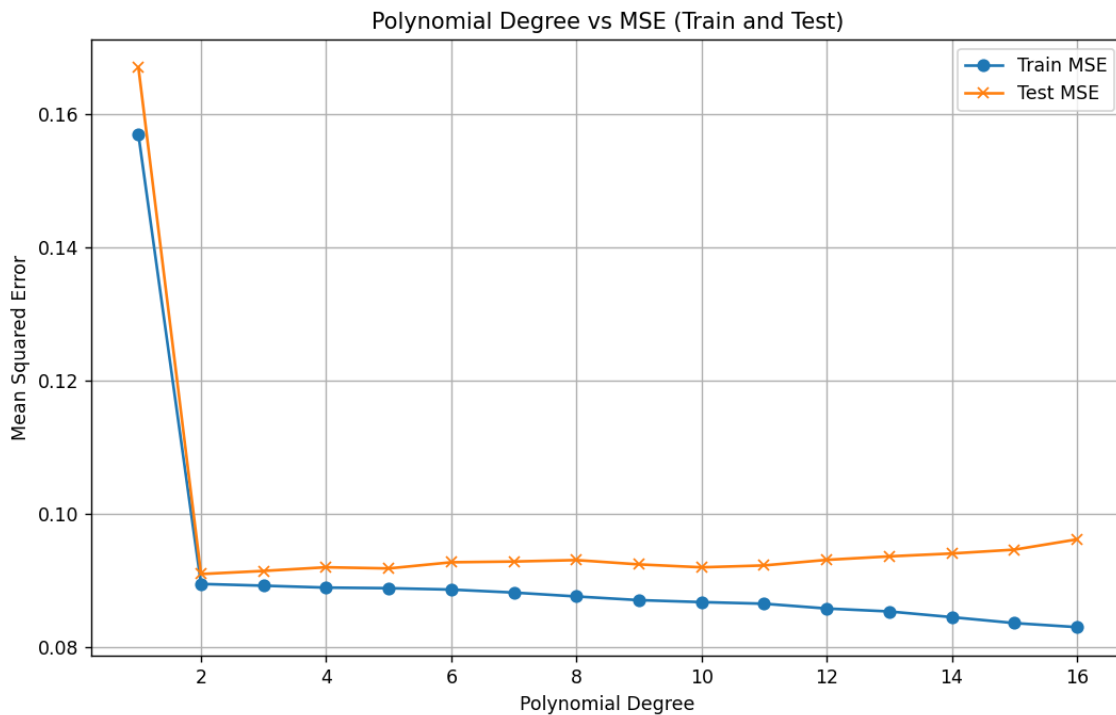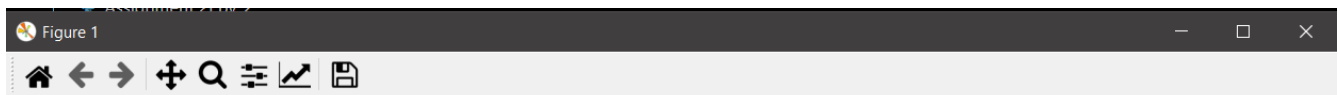ميسون حلمي عبدالرحمن علي شعبان
ID: 2022170629
Department: Scientific Computing (SC)
UMS Level: 3

Polynomial Degree vs MSE (Train and Test)

Conclusion:

The output demonstrates that a 2nd-degree polynomial regression offers the best balance between model complexity and generalization, with higher degrees reducing training error but worsening test performance, suggesting overfitting.