Lab 1 Report

EE 385T Intro to Machine Learning

# Code

# Questions

1. Quadratic Dataset
   1. Performance Metrics

|  |  |  |
| --- | --- | --- |
| Regression Type | Mean Absolute Error (MAE) | Correlation Coefficient (r) |
| Linear | 1.2240 | 0.9767 |
| Ridge | 1.2236 | 0.9767 |
| Lasso | 1.3347 | 0.9767 |
| Polynomial | 0.7560 | 0.9911 |

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1. Custom Dataset: Red Wine Quality
   1. Performance Metrics

|  |  |  |
| --- | --- | --- |
| Regression Type | Mean Absolute Error (MAE) | Correlation Coefficient (r) |
| Linear | 1.2240 | 0.9767 |
| Ridge | 1.2236 | 0.9767 |
| Lasso | 1.3347 | 0.9767 |
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1. Hyper-Parameters
2. When