ABE598 Autonomous Decision Making: Problem Set 2

# Problem 1 – Regression Problem with Wing Rock Dynamics

## Part 1. Collect a dataset

## Part 2. Learn weights using non-linear regression using the basis provided

## Part 3. GP Regression using onlineGP

## Part 4. Validate by finding mean squared error

## Part 5. Plot the time histories of the predicted and true states

# Problem 2 – Clustering with K-Means

done

# Problem 3 – Dirichlet Means

# Problem 4 – Neural Networks

# Problem 5 – Deep Neural Network