Joshua Burkhart

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CS 659

# Homework 2

## Linear Regression

### Problem 1.1. Exploratory data analysis.

a)

b)

c)

d)

### Problem 1.2. Linear regression.

a)

b)

c)

d)

### Problem 1.3. Online gradient descent

a)

b)

c)

d)

### Problem 1.4. Regression with polynomials.

a)

b)

c)

d)

## Classification

### Problem 2.1. Data analysis

### Problem 2.2. Logistic regression

a)

b)

c)

d)

e)

### Problem 2.3. Generative classification model

a)

b)

c)

d)

e)

f)

g)