

week 2 quiz 1

ml regression

1. eq 4
2. false
3. might
4. stay same
5. an algo for min.
6. estimate
7. large/small
8. 5000
9. nd2 d3

week 2 pa2

ml regression

1. 281.91
2. 356134.44
3. 366651.41
4. model 1
5. model 2

week 2 pa1

ml regression

- 12.45
- 7.50
- 7.55
- 74.65
- Positive (+)
- Negative (-)
- Model 3
- Model 2

week 3 quiz

ml regression

1.b

2.Model 2

3.It's impossible to tell with only this information

4.Model 2

5. c

6. a

7.b

8.High Bias

9.High Variance

10.overfitted

11.Minimizing validation error

12. Provides an overly optimistic assessment of performance of the resulting model

- Should never be done

13.Variance goes to 0

week 3 quiz

ml regression

1. No, it is not the same in all four models

2. b

3. 6

4.Between 1.2×10^{14} and 1.3×10^{14}

week 4 quiz

ml regression

1.Sum of parameters ($w_1 + w_2 + \dots + w_n$)

2.- High bias

- Low variance

3.Impossible to tell from the information provided

4.c

5.a

6.a

7.b

8. $L_N \text{Cost}(N-1, D)$

9. About 3 years

10. $k=36$

week 4 pa1

ml regression

1.80

2. Between 1000 and 10000

3. Between 1000 and 10000

4. 1.9

5. 2.4

6. 1000

7. Between $8e13$ and $4e14$

week 4 pa2

ml regression

1.263

2. 124.6

3. Line fit with no regularization ($12_penalty=0$)

4. Between $2e14$ and $5e14$

5. 243.1

6. 91.5

7. Between $4e14$ and $8e14$

8. The weights learned with high regularization ($12_penalty=1e11$)

week 5 quiz

ml regression

1.b

2.1048576

3.210

4.

5.To test the convergence of coordinate descent, look at the size of the maximum step you take as you cycle through coordinates.

6. a

7. c

week 5 pa1

ml regression

1. sqft_living

- grade

2.Between 0 and 100

3.18

4. 3792690191

5.3448968612

6. sqft_living

- bathrooms

week 5 pa2

ml regression

1. 1.64e8

- 1.73e8

2. 1.9e8

- 2.3e8

3. Between 1e15 and 3e15

4. bedrooms

5. constant

- sqft_living

- waterfront

6. constant

7. - constant

- sqft_living

- grade

- waterfront

- sqft_basement

8. The model trained with 1e4

week 6 quiz 1

ml regression

1. - A dataset with two features whose observations are evenly scattered throughout the input space

- A dataset with many observations

2. Better copes with noise in the data

3. large bandwidth

4. a

5. b

6. 1 sec

7. 5 features

week 6 quiz 2

ml regression

1. 0.060

2. 8

3. 382

4. 249000

5. training house with index 2818

6. 413988

7. 6

8. Between $8e13$ and $2e14$