Homework #1

COMPSCI 591/691NR

January 28, 2020

- Homework is due February 4, 11:59 PM.
- Do not cheat. Questions and concepts might be repeated on quizzes.
- Using Latex is recommended.
- Show your work.
- Handwritten and scanned submissions are accepted as long as they are legible.

Problems are from Bishop, Pattern Recognition & Machine Learning, 2006.

Chapter 1 Introduction (Exercises listed on pp. 58-66).
Basic exercises (5):
1. Ex. 1.1
2. Ex. 1.3
3. Ex. 1.6
4. Ex. 1.11
5. Ex. 1.21

Bonus for extra credit (3):
- Ex. 1.2
- Ex. 1.18
- Ex. 1.29

Chapter 3 Linear regression models (Exercises on pp. 173-177).
Basic exercises (5):
6. Ex. 3.1
7. Ex. 3.3
8. Ex. 3.4
9. Ex. 3.7
10. Ex. 3.10

Bonus for extra credit (3):
- Ex. 3.6
- Ex. 3.8
- Ex. 3.11