FYS-STK4155: Project 2

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Abstract

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1 Introduction

2 Theory

2.1 The Ising Model

2.1.1 1-dimensional Ising model

2.1.2 2-dimensional Ising model

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2.2 Logistic regression

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2.3 Cost Functions

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2.4 Neural Networks

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3 Implementation

Code can be found on [1].

4   Results

5   Discussion

6   Conclusion

Appendices

Put stuff like Bootstrapping, kfold CV, OLS/Ridge/Lasso regression here.

A   A refresher on linear regression

A.1   Ridge regression

A.2   Lasso regression

B   Bootstrapping

C k-fold Cross-Validation

References

[1] Mathias Vege. Fysstk4155: Project 2 github repository. https://github.com/hmvege/FYSSTK4155-Project2, October 2018.