Data Mining

Supervised Machine Learning

Lecture #1 – General Introduction

Introduction

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Introduction from you

- Name
- Nickname
- Brief bio
- What do you expect from this class?

Course goals

- What is Machine Learning? And why is it very useful in Data Mining

- Introducing the problem of classification

- Introducing **M**ulti-**L**ayer **P**erceptrons and **C**onvolutional **N**eural **N**etworks

Logistics

- Class from Monday to Friday evenings and Saturday morning.

- Each class will be divided into theoretical and practical sessions (~2h each)

- You are expected to write a technical report of the labs and return it to me, along with your code, before December 31st midnight.

Grading

- Final exam (50%)
- Report and code from labs (50%)

- No **plagiarism** tolerated
- No late policy

Course overview

- Introduction
- Neural Networks, Multi-Layer Perceptrons
- Training Neural Networks
- Optimization and Regularization
- Convolutional Neural Networks
- Some insights about Deep Learning

Questions at this point

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