Machine Learning Programming Fall 2018-2019 Semester

Introduction

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Teaching Assistants



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Course Content:

- Pure Programming Course
- Content follows Applied Machine Learning course (Friday 9am-1pm ELA1)

Prerequisites:

- Programming in matlab R2018a (already installed on the computers)
- Basics in Machine Learning:
 - Principal Component Analysis (PCA)
 - K-nearest neighbour (KNN)
 - > K-means
 - Gaussian Mixture Model (GMM)
 - > Applications of GMM (Clustering, Classification, Regression)

Grading scheme:

- 5 graded assignments (see class schedule)
- % of grade distribution over the assignments:

Assignment	Grade Percentage
Principal Component Analysis (PCA)	10
K-Nearest Neighbors (K-NN)	20
K-Means	20
GMM	30
GMM Applications	20

- •100% grade if code runs and outputs what is expected (see assignment instructions). Code must run under matlab R2018a. If the code fails to run, the assignment will be verified manually and grading will be on a case by case basis depending on the amount of failure.
- •Late submissions will be penalized. 1 pt removed for each day late. A day late starts 1 hour after submission.

We use Virtual Machines (VM) to all have the same working environment.

To connect in the rooms:

- Each computers have VMware installed
- Log in to <u>STI-WINDOWS 10</u> with your credentials

To connect from your computer:

- Go to https://vdi.epfl.ch/
- Click on install VMware Horizon client and download the client for your distribution
- Start the client and click on New Server
- Enter https://vdi.epfl.ch as Connection Server and click on Connect
- Use your your credentials and log in to <u>STI-WINDOWS 10</u>

<u>Notice</u> Do not save anything outside of the Documents folders! It will be destroyed after you close the VM!