Summer Program FGV/EMAp 2019

INTRODUCTION TO MACHINE LEARNING WITH PYTHON

Prof. Luis Gustavo Nonato

University of São Paulo - São Carlos - SP

Course Structure and Content

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- Principal Component Analysis

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- Regression

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- Regression
- Clustering and Classification

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Data Science Central

ANALYTICS | BIG DATA | HADOOP | DATA PLUMBING | DATAVIZ | JOBS

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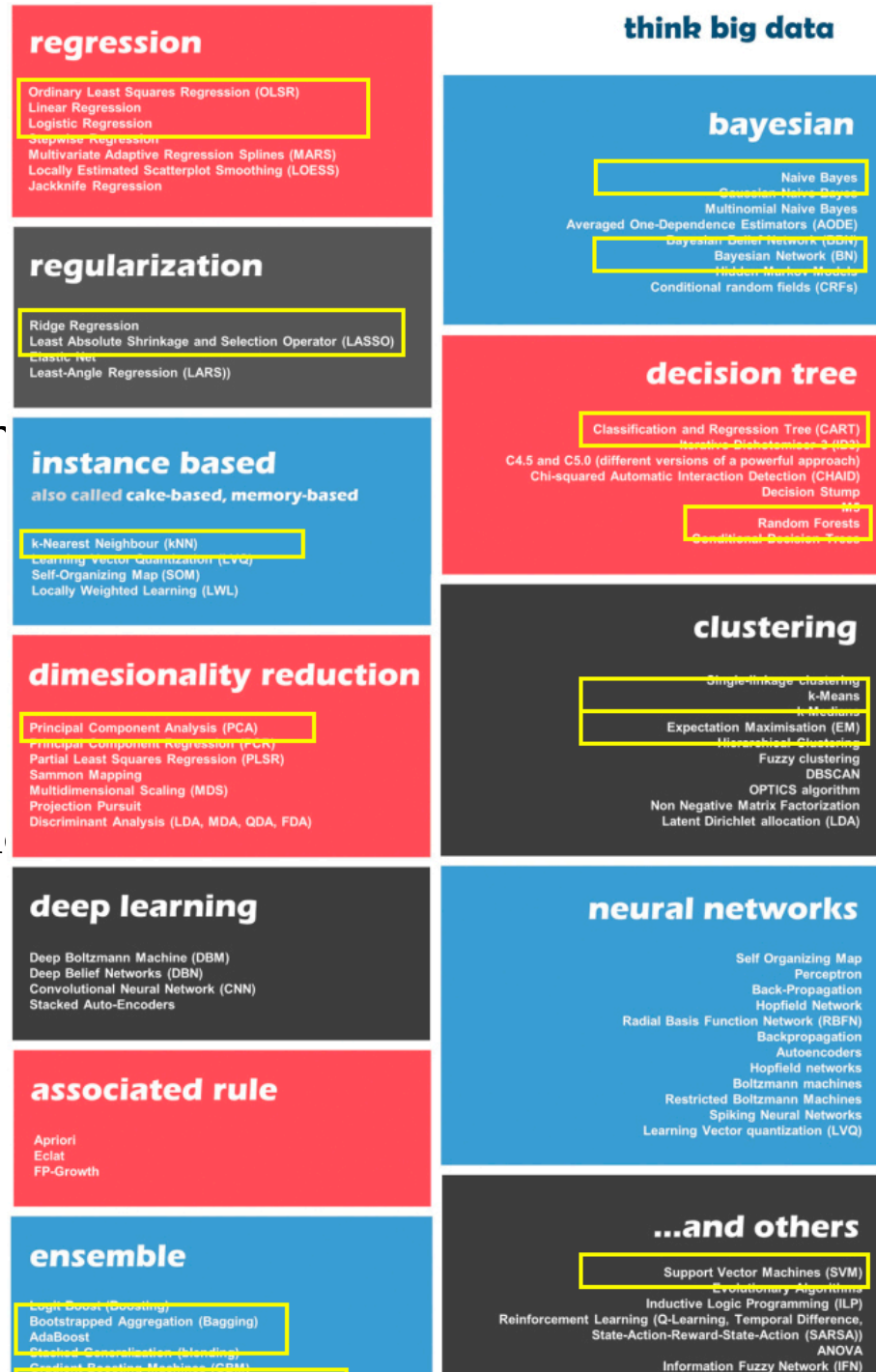

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No deep knowledge in Python will be required.

The code will be as simple as possible and easily understandable, even for students not so experienced in computer programming.

Machine Learning: What and Why?

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The goal is to *learn* the hidden model/process from data !!

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The taxonomy above is not comprehensive, there are methods that do not properly fit in any of those two categories. For example, semi-supervised and reinforcement learning methods.

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- This course covers important concepts and machine learning techniques
- There are, though, relevant not coved topics (Neural Networks for instance)
- We will adopt a very practical approach, with real data and applications.