# Assignmento Projecto Exam Help

https://eduassistpro.github.

June 4, 2018

### Course Logisitics

► **THE** formula:

 $Assign \texttt{mark} = 0.55 \cdot exam + 0.15 \cdot (ass1 + proj1 + lab) \\ \textbf{Assignment} & \texttt{ifProject} & \texttt{Exam} \\ lab = avg(best\_of\_3(lab1, lab2, lab3, lab4, lab5)) \\ \textbf{Help} \\$ 

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  - ▶ 18 Jun: 1200–1400, K17-508
- course leedback via comments in the course sur messages to me of the forum wellar course sur aspects such as coverage, difficulty le python/Jupyter, project, and background required.

#### Note

- (1) The final exam mark is important and you must achieve at least 40!
- (2) Supplementary exam is only for those who cannot attend the final

### About the Final Exam

► **Time**: 1345 – 1600, 19 Jun 2016 (Tue), 10 minutes reading time + 2 hr closed-book exam.

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- Designed to test your understanding and familiarity of the core
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### About the Final Exam /2

- ▶ Read the instructions carefully.
- ▶ Use your time wisely. Don't spend too much time if stuck on one

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### Disclaimer

We will go through the main contents of each lecture. Ho

that it Abdra near West tive nat edu\_assist\_properties to be a second of the contents of each lecture. Ho

### Introduction

- ▶ DM vs. KDD
- ▶ Steps of KDD; iterative in nature; results need to be validated.

## Assignation (efficiency) Projective Exam Help

▶ Able to cast a real problem into a data mining problem.

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### Data Warehousing and OLAP

- ▶ Understand the four characteristics of DW (DW vs. Data Mart)
- Differences between OLTP and OLAP

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sources to the DW tables.

### Linear Algebra

- ► Column vectors; Linear combination; Basis vectors; Span
- Matrix vector multiplication

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### **Data Preprocessing**

- ▶ Understand that real data is "dirty" (incomplete, noisy, inconsistent)
- ▶ How to handle missing data?

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(including V-optimal and MaxDiff)

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### Classification and Prediction

- Classification basics:
  - overfitting/underfitting; cross-validation
- Classification vs prediction; vs.clustering (unsupervised learning):

  ASSIGNATION (unsupervised learning):

  Classification vs prediction; vs.clustering (unsupervised learning):

  Classification vs.

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- Naive Bayes classifier
  - Smoothing

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- estimation of the model parameters + regularization; Gradient ascend.
- ► SVM: Main idea; the optimization problem in the primal form; the decision function in the dual form; kernel

### Cluster Analysis

► Clustering criteria: minimize intra-cluster distance + maximize inter-cluster distance

Assignment difference jeers by Exam Help distance functions: L<sub>p</sub>

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### Cluster Analysis /2

- ► Partition-based Clustering: *k*-Means (algorithm, advantages, disadvantages, . . . )
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### Association Rule Mining

- Concepts:
  - ► Input: transaction db
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### Association Rule Mining /2

- ► FP-growth algorithm:
  - ► How to mine the association rule using FP-trees?
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### Thanks You and Good Luck!

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