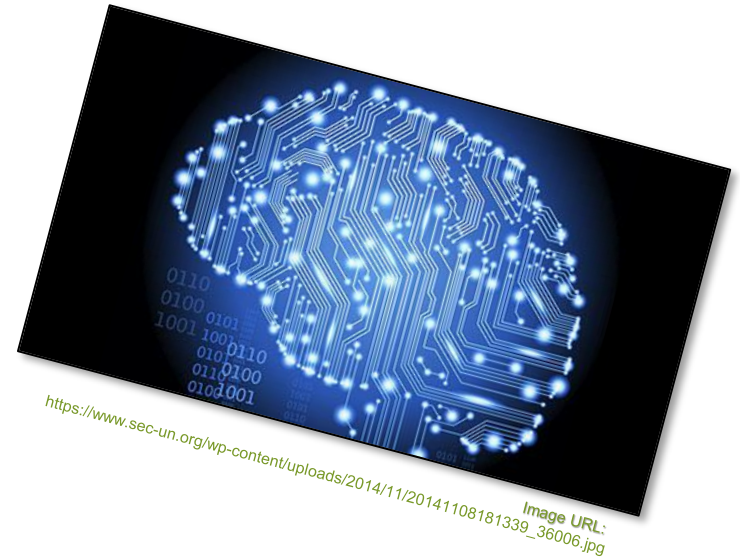


***CST8390 - LAB***  
**BUSINESS**  
**INTELLIGENCE &**  
**DATA ANALYTICS**

**Week 1**  
**General View**

# First meeting – Course Overview

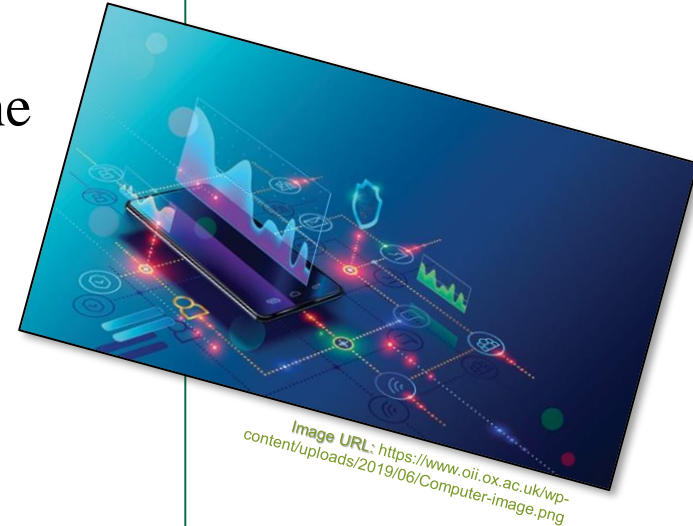
- General view
- Who am I?
- Methodology
- Attendance
- Important dates
- Open questions...



# General View

- Labs are the best way to **practice** the theory and **fix** the concepts;
- **Note:** they are a **required** complement of the lectures, and a part of the grade.

Evaluation Breakdown	
Assessment	Value
Assignment 1	10%
Assignment 2	10%
Assignment 3	10%
Final Project / Presentation	15%
Labs	20%
Tests (Assessments)	10%
Final Exam	25%



# Who am I?

- Brazilian developer (Java, .Net), **analyst**, manager (PMI certs) and academic lecturer / advisor;
  - **Academic path:** Theory of computation (Grad), Computational grids (MSc.) and quantum computing (Doc); ✖
  - **Professional path:** Industry and Government experience – 10 years each; +
    - Most recently: **Data science** initial path.

**Most important:** Does not matter who I am, but how can I help you....



Image URL: <https://www.oceannetworks.ca/brazil-canada-partnership-workshop>

# Methodology

- Labs are **weekly**, **practical** and I recommend you show the results **during the class**;
- The activities can be done **individually** or by **peers**.

In short, you follow the steps and show the results, giving your **own interpretation** about them.

Being an analyst is **understand** the data!



Image URL: <https://www.marketingdirecto.com/wp-content/uploads/2018/01/ciencia-datos.jpg>

# Attendance

- **Q1:** Why should I be here?

Basically, you just need to **show the labs**, in order to get the marks.

- **Q2:** Can I come to any class?

Sure, but be aware about the **limit** of classroom space.

- In short, you most **welcome** to present questions, discuss and practice!



# Dates

Prof. Anu Thomas returns  
after the week break!

COURSE SECTION INFORMATION					
Course Number: CST8390 - Business Intelligence and Data Analysis					
Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%)	Resources	CLRs
<b>Week 1</b> Jan 5-11	Introduction to Course, Introduction to Business Intelligence	Lab 1	-	Textbook - Chapter 1	-
<b>Week 2</b> Jan 12-18	Business Intelligence components and architecture	Lab 2	-	Textbook - Chapters 3, 4	-
<b>Week 3</b> Jan 19-25	Introduction to Data Analytics - Classification - kNN	Lab 3	Online test 1 (2%)	-	-
<b>Week 4</b> Jan 26 - Feb 1	Clustering - kMeans	Lab 4	-	Textbook - Chapter 8	-
<b>Week 5</b> Feb 2-8	Classification - Decision Trees and their construction	-	Assignment 1 due (10%)	Textbook - Chapter 8	-
<b>Week 6</b> Feb 9-15	Outlier Decision - LOF, ISF	Lab 5	Online test 2 (2%)	-	-
<b>Week 7</b> Feb 16-22	Regression	-	Assignment 2 due (10%)	-	-
(-) Feb 23-29	-	-	-	-	-
<b>Week 8</b> Mar 1-7	Data Mining - Association Rules	Lab 6	Online test 3 (2%)	-	-
<b>Week 9</b> Mar 8-14	Introduction to Data Science Tools	Lab 7	-	-	-
<b>Week 10</b> Mar 15-21	Trending topics in industry	Lab 8	Online test 4 (2%)	-	-
<b>Week 11</b> Mar 22-28	Big Data	Lab 9	Assignment 3 due (10%)	-	-
<b>Week 12</b> Mar 29 - Apr 4	Student Presentations	-	Online test 5 (2%) - Presentations (15%)	-	-
<b>Week 13</b> Apr 5-11	Student Presentations	-	Presentations (15%)	-	-
<b>Week 14</b> Apr 12-18	Final exam	-	Final exam (25%)	-	-

# Open questions...

- Before we start, do you have any doubt / question?



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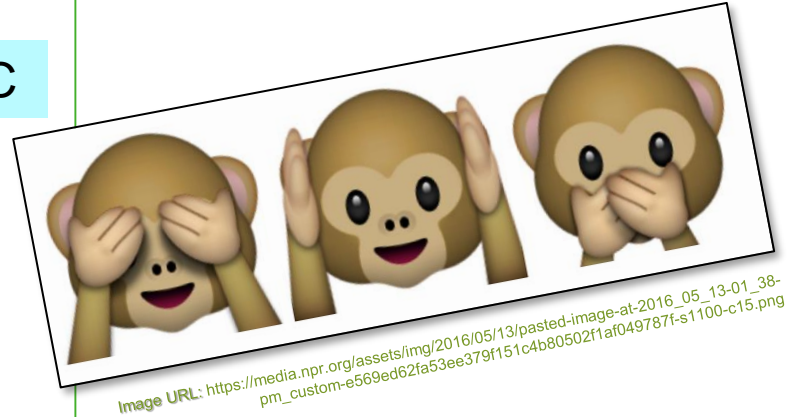




# First Survey

1. Please, access:

<https://www.surveymonkey.com/r/H6LMLCC>



Source: [https://cdn.arstechnica.net/wp-content/uploads/2018/03/LLVM\\_Logo.svg\\_-800x602.png](https://cdn.arstechnica.net/wp-content/uploads/2018/03/LLVM_Logo.svg_-800x602.png)

# See you...

- Remember:
  - In labs, you are the focus, the **star**!
  - It is an important moment to show results, discuss and, most of all, **enjoy**!
  - Any questions, let me know...

[sousap@algonquincollege.com](mailto:sousap@algonquincollege.com)

Thank you for your attention!



Image URL: [https://thumbs.gfycat.com/MaleFrigidBull-size\\_restricted.gif](https://thumbs.gfycat.com/MaleFrigidBull-size_restricted.gif)

Please, send the digital file (PDF / DOC) in the end.