



CEBD – 1160

Introduction to Big Data

Technology

Course Overview

Enseignante | Bio

Nesrine Zemirli, PhD

- More than 15 years of professionals experiences
- Associate- Lead Data Scientist - AI Expert at Group Neos Inc,
- **Trainer / Professor**
 - Big DATA
 - Data Science / AI
 - IoT
 - Computer sciences (Java/R/Python,...)
- **Data Scientist** : Machine Learning - Big Data - Personalization - Predictive approaches - Recommender System



Courses Objectives:

- Present the main concepts of Big Data Analytics applications and introduce the core elements of the Big Data ecosystem.
- Explain the computation paradigm behind the Big Data Analytics system and use the related tools.
- Present the analytics process to extract insights from Big Data.
- Introduce to the programming languages used for Big Data Analytics (R and Python)
- Develop R program for the preprocessing step of Big Data Analytics solution and use the appropriated packages.
- Develop Python program for the preprocessing step of Big Data Analytics solution and use the appropriated packages

Courses outcomes

■ At the end of this course you will be able to:

- Identify and implement Big Data Analytics core concepts and the related technologies within a big data project.
- Describe an analytics solution in a Big Data context.
- Configure and install tools for Big Data analytics solution.
- Share their work using GitHub.
- Preprocess and analyze data for an analytics solution using R and python languages through Notebooks.

Teaching approach

- Interactive lecture
- Labs and hands-on
- Homeworks

Evaluation

- Homework (20%)
- Quiz (10%)
- Project (70%)

“Genius is 1% inspiration
and 99% perspiration.”

- Thomas Edison (1847-1931),
American inventor

Before you start

■ Ask questions

- If a point is not clear, do not hesitate to ask questions at any time.

■ Contact :

- nesrine.zemirli@concordia.ca



Good session!

