Data Lake: Modern Data Systems Master EDT-IDS – Orsay University

Bachar Wehbi

bachwehbi@gmail.com

What we will learn in this Module

- Understand Modern Data Systems & Data Architectures for Big Data
- Data Lake: Store massively and efficiently
- Process: Revisiting Spark
- Ingest in real-time: Streaming data systems
- Expose: NoSQL Data Systems
- Data Lake in the Cloud

- Session 1 Data Systems & Architectures
- Session 2 Data Storage + Exercises
- Session 3 Data Processing with Spark Exercises
- Session 4 Data streaming with Kafka + Exercises
- Session 5 Exercises Continued
- Session 6 Exposing Data with NoSQL + Exercises
- Session 7 Data Lakes in the Cloud + Exercises

- Score will be composed as follows
 - 20%: Presence and participation
 - 80%: Practical work

Module Practical Work

- All exercises will be on Linux
- Use VirtualBox if you use MS Windows
 - Ubuntu 18.04 LTS
 - Please have it ready as before next session
- All exercises include the installation procedures for dependencies
- Module contents will be available at:

https://github.com/bachwehbi/data-systems

- Interactions and discussions
 - Stop me when things are not clear
 - Ask questions: there is no bad questions, only bad answers!
 - I might not have answers for everything, but I'll always try to come back with an answer the next session.
 - Provide feedback on the content of the module. This helps make it better
 - Open issues at the module repository on Github
 - If you have suggestions or corrections, open Pull Requests
 - Or just send me an email

- I need your emails to share content
- Please send an email now to bachwehbi@gmail.com
 - Subject: Data Systems
 - Your full name