

## **Description**

This term we'll give your group **some flexibility on what to work** on as the group assignment.

You'll have two options:

- 1. Take the **previous group assignment** to the next level
- **2. Start a new one** from scratch with similar structure (ex. use case answering business questions)



## **Description - resuming assignment**

**EDA** on **some datasets** with the libraries we studied.

Your group could take analysis further and bring advanced analytics by introducing graph processing, machine learning processing or stream processing.



## **Description - new assignment**

If your group believes it doesn't make sense starting from where you left it off, you can **start** a new assignment from scratch.

Your group should choose one or multiple datasets to implement some advanced analytics via graph processing, machine learning processing or stream processing.



## **Description - technical constraints**

Not limited or forced to, your project should rely on the following technologies:

- Ingestion : NiFi or Python applications
- Storage: HDFS or Kafka
- Processing: Spark
- Serving: MongoDB, MariaDB





#### **Outcome**

As a result of working on the assignment, your group should **submit the following items** via Blackboard:

- Notebook notebooks with code implementing use cases answering "relevant" business questions
- Video recording\* 10-minute recording presenting the project (cameras on). All team members have to present.
- ► Slide deck\*\* Well-elaborated and easy to follow slide deck that should be used during the video recording.

<sup>\*</sup> The video has to be recorded in a native video format (ex. MPG, MOV, ...)

<sup>\*\*</sup> Slide deck has to be uploaded in PDF format.

### **Outcome - NEW THIS TERM!**

Additionally to the previous items, this term you should share a **PDF document detailing the following**:

- Roles & Responsibilities who did what.
- Organization how every team member contributed to the assignment.

This document shouldn't be bigger than 1 page.



## Suggestions for your presentation

Again, organize the recording and slide deck the way **your group considers it the best**.

The **following points are just a suggestion** that might be followed:

- Challenge/s addressed
- Big Data pipeline setup (sources, ingestion, ...)
- Insights
- Conclusions



## **Delivery**

Everything has to be provided via **Blackboard** before **due date**:

# November 19th, 2023

DON'T MISS THE DEADLINE!

