MASTER IN
BUSINESS INTELLIGENCE
& BIG DATA ANALYTICS

Homework 2

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Homework (option 1)

- **RECOMMENDED!!!!!!**
  - Starting from the work done in the **first homework** (related to scraping, ETL, data quality, ...), build a **visualisation dashboard** with one of the tools you have seen in class (Tableau, PowerBI, Python, ...) trying to answer the objectives and questions you had set

- You can also use Kibana, Qlik Sense, Kepler,... or D3JS) identifying some analysis solutions

- Add the slides to the work already done and send the new PDF to the e-learning platform.

- The GitHub/GitLab/... option is always available.

Homework (option 2)

- Choose a new dataset (pay attention to complexity) and build a visualisation dashboard with one of your choice of the tools seen in the lecture (Tableau, PowerBI, …);

- You can also use Kibana, Qlik Sense, Kepler,... or D3JS) identifying some analysis solutions

Homework (option 3)

- Learn more about one of the following topics related to Spark and Big Data architectures: (examples)

- Network traffic analysis with Spark

- Spark & Cloud: features (advantages, disadvantages, costs) of a Spark platform in Cloud (e.g. Google Dataproc, Microsoft Azure, Databricks, DataRobot, ...)

- Learn more about **Abacus.ai** or **KubeFlow**

- Create a server-less solution for data analysis in AWS

  - AWS SageMaker

  - AWS EMR

  - Azure

  - ...

- More insights Spark / Hadoop ...

Details

Prepare a presentation (max. 20 slides) describing:

- Data used
- The 'answers' to your questions
- Aspects, hints, ... that emerge from your data (aka... let the data speak) or your research

Share (via email or e-learning) the work you have done

Option 3:

- Max 15 Slides
- Describe aspects of the solutions analysed

Submission

- The presentation (PDF format) must be uploaded to the e-learning platform

- It is also possible to upload the work and part of the source code to GitHub

- During the next lessons following the delivery you will present the most interesting works (1 or 2 presentations)