## NDB048 Data Science - Structure of Report

#### 1. Introduction

- Reasons for carrying out analysis
- What do we expect / what story are we telling?

#### 2. Data

- Data size, format, fields, data types, ...
- Data source, reliability?
- Basic statistics + visualizations
- Sanity checks
- Missing values, outliers, ...

### 3. Methodology

- Description of data selection, cleaning, transformation
- Discussion of the choice of analyses for the selected task
- Description and assessment of the results
- Description of usage of the approaches for Big Data processing (MapReduce / Spark / multi-model DB) for a selected part of the analysis
  - Note: Add the used source codes/scripts as an attachment
- Possibly description of the iterations made

### 4. Summary

- Summarization of the findings
- Possible exploitation, data/methodology extensions

# Typical problems:

- 1. Useless graphs/tables (Does it carry any useful information? Why is it there? Is it worth it?)
- 2. Too many similar graphs, inappropriate type of graphs
- 3. No comments on the graphs/tables (What insights a graph provides should be summarised in text, too.)
- 4. Graphs without appropriate description (axis labels, titles, population constraints, ...)
- 5. Graph inconsistencies across a whole document (color, scales, graph types, ...)
- 6. No summary/conclusion
- 7. Useless information (copying information from slides, list of used technologies, ...)
- 8. Reproducibility problems, code behind the report issues