**Part 2 – Analytics**

**Exercise 7 – Machine Learning**

The sinking of the Titanic is one of the most infamous shipwrecks in history.

On April 15, 1912, during her maiden voyage, the widely considered “unsinkable” RMS Titanic sank after colliding with an iceberg. Unfortunately, there weren’t enough lifeboats for everyone onboard, resulting in the death of 1502 out of 2224 passengers and crew.

While there was some element of luck involved in surviving, it seems some groups of people were more likely to survive than others.

1. build a predictive model that answers the question: “what sorts of people were more likely to survive?”
2. Submit your results to Kaggle competition

More information in:

* <https://www.kaggle.com/c/titanic>

**Exercise 8 - Reporting**

1. Create a Paginated Report using the PowerBI Report Buider to show to result you got in the previous exercise
2. Create a report parameter to filter the report data by passenger class

You can compare your results with the historical facts:

* <https://titanicfacts.net/titanic-survivors/>

**Exercise 9 – Delivery**

1. Create a folder with all the projects you made (SSDT, T-SQL scripts, R/Python…);
2. Create a read-me file explaining the folder’s content;
3. Zip the folder and send it to [bonacho@gmail.com](mailto:bonacho@gmail.com)

Have fun 😉