# Project 1 – Water potability

[Dirty Water](https://github.com/MarceloAlvesPereira/Springboard/blob/ac9e44eb0d035c6cbd66d43435d02df3ec19ece0/Projects%20-%20Capstone%202/Project%201%20-%20Water_potability.ipynb)

Data contains nine physical properties of samples for different water bodies and a field classifying the water as potable and non-potable. Data contains 3,276 entries and the target (potability) has no null data. This is a problem of public interest for health and well-being of the population. It is of interest of public management, companies interested in providing water for the population, the communities around those water bodies.

# Project 2 – Credit Approval

[Credit Approval](https://github.com/MarceloAlvesPereira/Springboard/blob/ac9e44eb0d035c6cbd66d43435d02df3ec19ece0/Projects%20-%20Capstone%202/Project%202%20-%20Credit%20Approval.ipynb)

Data concerns credit card applications with a mix of attributes: continuous, nominal with small numbers of values, and nominal with larger numbers of values. There are also a few missing values. Data has 690 entries for 6 continuous features, 9 categorical, and the target variable (approval).

Banks, Credit Union, Credit score modeling, and clients applying for credit card can make use of this kind of content.

# Project 3 - Star Type Classification

[Star Type Classification](https://github.com/MarceloAlvesPereira/Springboard/blob/ac9e44eb0d035c6cbd66d43435d02df3ec19ece0/Projects%20-%20Capstone%202/Project%203%20-%20Star%20Type%20Classification.ipynb)

Data from NASA for Star Type Classification. It has only 240 entries, 7 features (5 continuous and 2 categorical) and one target.

This is a problem where astronomers and NASA researchers will utilize this model to analyze astronomical observation and classify the stars.