Fundamentos de Ciência de Dados / Foundations of Data Science

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S4 – Data Mining and Machine Learning (15%)

Answer the following questions using for each a **MAXIMUM of 1500 characters (~22 lines) plus references**. Then upload a **.pdf file** with your answers in **Moodle**.

1. Data Mining tasks can be divided into *Descriptive* and *Predictive*. What is the difference between these two types of Data Mining tasks? Give an example of a Descriptive Data Mining task and an example of a Predictive Data Mining Task.

2. Describe two Data Science problems where *Machine Learning* should be used. The first should be solved using *Supervised Learning*. The second should be solved using *Unsupervised Learning* (since Supervised Learning would not be possible).