

# Final Course Assignment

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Mathematical Aspects in Machine Learning

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## 1 Introduction

In the past course we dealt with the broad mathematical foundations of machine learning. To get an idea of what the consequences of those mathematical theorems and approaches are and to get in touch with the standard Python tools, we have evaluated an comparatively easy data science example found on [kaggle.com](https://www.kaggle.com). The example dataset [1] consists of the historic passenger records of the disastrous Titanic maiden voyage in 1912.

Listing 1: Hello World

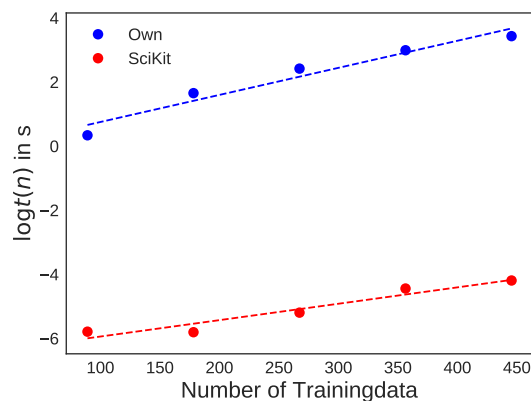
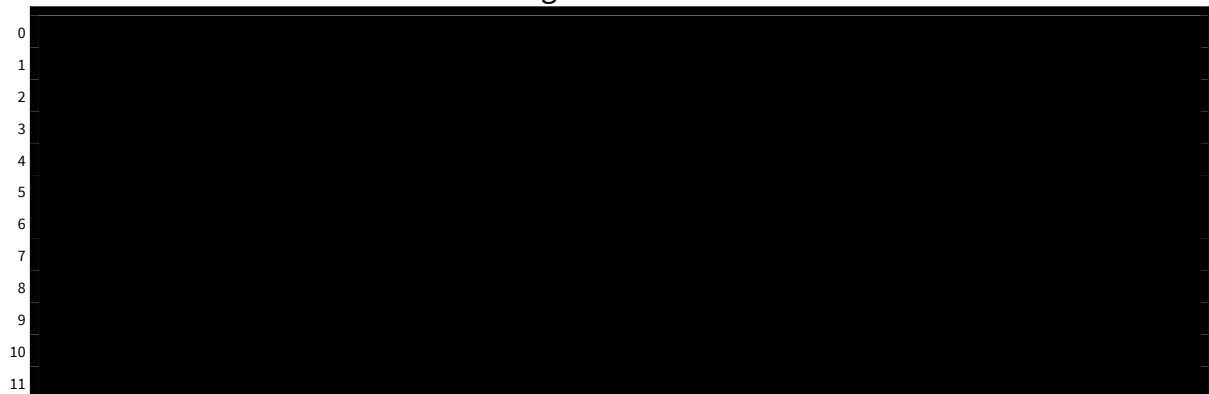
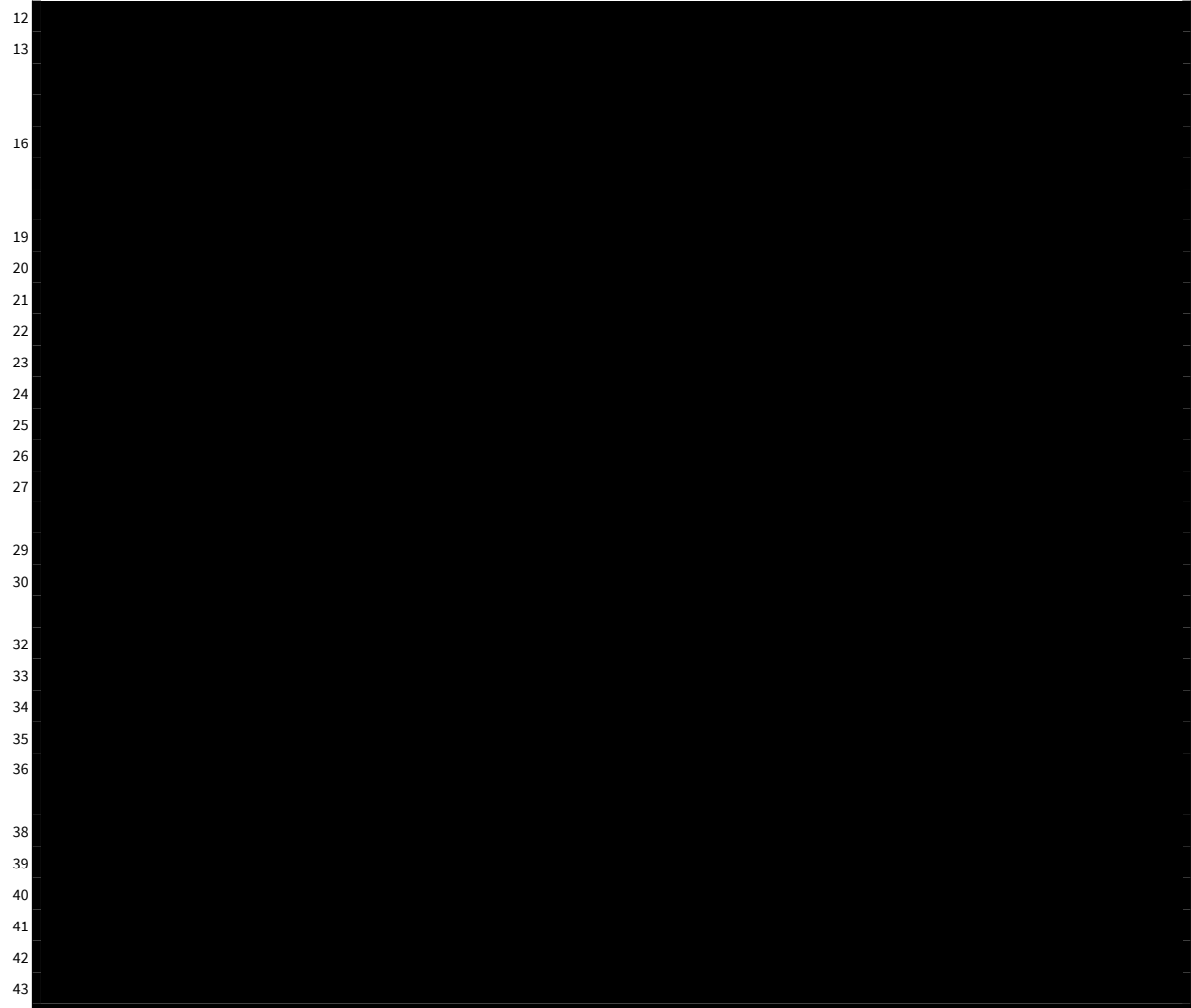


Figure 1: Benchmark



## 2 Applying Machine Learning Methods on the Titanic Disaster

blalba

## 3 Implementation of an easy SMO Algorithm

## References

- [1] Kaggle. *Titanic: Machine Learning from Disaster*. July 13, 2017. URL: <https://www.kaggle.com/c/titanic>.