

Thesis
B.Sc.

Thesis
M.Sc.

Machine Learning on Communication Data

Motivation

In previous work we imported a lot of data onto a machine and partially into a database that describes the operation of the Internet Engineering Task Force (IETF). The IETF is standardizing Internet technology. Most of the data is the mailing lists that are used to discuss and achieve consensus, but the data is not limited to that. Until now, we have looked into some time series aspects and the problem of identifying individuals and their many representations in the data.

One goal of research is to generate models to be able to predict behavior. Machine Learning is a tool that provides a set of adaptable models that can be used for such purposes. We may ask ourselves what leads to a successful standardization, what leads to meeting the initial deadlines, etc. When we extract what had happened and in addition extract factors we consider to be important, we can learn a predictor and check whether the model can give a prediction with good enough quality.

It is an interesting question if we can find models that generalize or the situations are so unique that no general conclusions can be drawn from the data.

Your Task

- Familiarize yourself with our existing ML framework
- Research related work
- Analyse the problem and generate research questions
- Extract inputs and outputs as well as generate factors
- Write scripts and code to analyze the data
- Answer research questions with the data and the tools

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