

Proposal Title Pending

Introduction/ Problem/ Goals/ Solution Approach

- Tex Vorlage? Nicht unter thesis topics oder nicht gefunden
- Working with GIT repo?
- When weekly progress meeting with other students
- Using openml.org? AutoML = framework by SFB
- Adapt framework (from SFB?) to be used for regression/ ranking problems
- Language: java
- Metalearning: Main benefit: use insights gained about learning process for future decisions
- Central Problem: Have datasets and performance of different ML-Algos on these datasets. Want to use regression Algo to predict performance of any Algo on new dataset. But too many regression algorithms to choose from -> Solution proposed here is to evaluate their performance of regression Algos depending on different datasets, so that then for a given dataset a ranking of regression algorithms is made automatically. The next step is then to evaluate ranking algorithms for the regression algorithms depending on the input data, so that for a given dataset, at first, a ranking algorithm is chosen, which then gives a ranking of the regression algorithms. optional? All these steps have to be performed within a timespan that can be defined by the user, which means that the strategy needs to be adapted accordingly (with more time given, top-ranked algorithms performance may be tested on the dataset more extensively to get more accurate results) optional?.
- Related work?

Preliminary Structure:

1. Introduction
 - a. Motivation
 - b. Goals
 - c. Solution Approach
 - d. Example
 - e. Structure of Work
2. Basics/ Background
 - a. Technologies Used
 - b. Regression Algos?
 - c. Ranking Algos
3. Implementation
4. Evaluation (Results)
5. Related Work?
6. Conclusion
7. Literature
8. Appendix

Schedule:

See pdf.