

Partial Solutions to Universal Problems

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BACHELORARBEIT

eingereicht am
Fachhochschul-Bachelorstudiengang

Medizin- und Bioinformatik

in Hagenberg

im Juni 2023

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Declaration

I hereby declare and confirm that this thesis is entirely the result of my own original work. Where other sources of information have been used, they have been indicated as such and properly acknowledged. I further declare that this or similar work has not been submitted for credit elsewhere. This printed copy is identical to the submitted electronic version.

Hagenberg, June 27, 2023

Lukas Fallmann

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Preface

Abstract

This should be a 1-page (maximum) summary of your work in English.

Kurzfassung

An dieser Stelle steht eine Zusammenfassung der Arbeit, Umfang max. 1 Seite. ...

Chapter 1

Introduction

- 1.1 Overview of the topic
- 1.2 Why is it important
- 1.3 What are current methods that are prominently used
- 1.4 Machine Learning in drug design / activity prediction
- 1.5 Interactions
- 1.6 Goals

Chapter 2

Methods

- 2.1 Data description
- 2.2 Data partitioning
- 2.3 Machine Learning approaches
- 2.4 quality metrics
- 2.5 hyperparameter search
- 2.6 feature engineering

Chapter 3

Results

- 3.1 Results of the models, mostly tables but for best performing models in each category also do some plots like confusion matrices, AUC plots if available, bar plots for comparison between models

Chapter 4

Discussion

4.1 Performance

4.2 Improvements

Appendix A

Technical Details

Appendix B

Supplementary Materials

List of supplementary data submitted to the degree-granting institution for archival storage (in ZIP format).

B.1 PDF Files

Path: /

thesis.pdf Master/Bachelor thesis (complete document)

B.2 Media Files

Path: /media

*.ai, *.pdf Adobe Illustrator files

*.jpg, *.png raster images

*.mp3 audio files

*.mp4 video files

B.3 Online Sources (PDF Captures)

Path: /online-sources

Reliquienschrein-Wikipedia.pdf [1]

Appendix C

Questionnaire

Appendix D

LaTeX Source Code

References

Online sources

- [1] *Reliquienschrein*. Aug. 29, 2022. URL: <https://de.wikipedia.org/wiki/Reliquienschrein> (visited on 02/11/2023).

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