Thesis Title

Author’s name

Thesis type (Bachelor’s Thesis / Master’s Thesis, . . . )
in course type (Computer Science, Computer Science plus Mathematics, . . . )

Supervisor: Prof. Dr. Jasmin Blanchette

Advisor: Advisor’s name

Submission Date: September 29, 2023
Disclaimer

I confirm that this thesis type is my own work and I have documented all sources and material used.

Munich, September 29, 2023

Author
Acknowledgments
Abstract

Artificial Intelligence (AI) has emerged as a transformative force in the field of healthcare, offering unprecedented opportunities to enhance patient care, streamline processes, and improve outcomes. This research paper explores the profound impact of AI on healthcare delivery by examining its applications in various facets of the healthcare ecosystem, from diagnostic accuracy and treatment optimization to administrative efficiency and patient engagement. We review recent case studies and data-driven insights to illustrate the tangible benefits and challenges associated with the integration of AI technologies in healthcare settings. Additionally, we discuss ethical considerations and the need for regulatory frameworks to ensure the responsible and equitable deployment of AI in healthcare. This study highlights the potential of AI to revolutionize healthcare delivery and underscores the importance of a thoughtful and ethical approach to its implementation.

**Keywords**: Artificial Intelligence, Healthcare Delivery, Patient Care, Diagnostic Accuracy, Treatment Optimization, Ethical Considerations, Regulatory Frameworks.
1 Introduction

This document serves as a template for bachelor or master theses in the 'Chair of Theoretical Computer Science and Theorem Proving' at LMU. By commenting one of the commands `selectlanguage{english}` or `selectlanguage{german}` the documents language is changed. The template follows the guidelines of the journal language (http://www.linguisticsociety.org/sites/default/files/style-sheet.pdf).

2 Notes on form

2.1 Formatting

This LaTeX template uses the following formatting:

- font: Linux Libertine O (alternatively: Times New Roman)
- font size: 12 pt
- left and right margin: 3.5 cm, top and bottom margin: 3 cm
- align: left
- line spacing: one and a half (alternative: 15 pt line spacing with 12 pt font size)

When implementing the specifications in Word, it is essential to define style sheets.

2.2 Citation

The citation method follows the author-year system. Place reference is in the text, footnotes should only be used for explanations and comments. The following notes are taken from the language bibliography template from ron.artstein.org:

The Language style sheet makes a distinction between two kinds of in-text citations: citing a work and citing an author.

- Citing a work:
  - Two authors are joined by an ampersand (&).
  - More than two authors are abbreviated with *et al.*
  - No parentheses are placed around the year (though parentheses may contain the whole citation).

- Citing an author:
  - Two authors are joined by *and*.
  - More than two authors are abbreviated with *and colleagues*.
  - The year is surrounded by parentheses (with page numbers, if present).
To provide for both kinds of citations, language.bst capitalizes on the fact that natbib citation commands come in two flavors. In a typical style compatible with natbib, ordinary commands such as \citet and \citep produce short citations abbreviated with *et al.*, whereas starred commands such as \citet* and \citep* produce a citation with a full author list. Since *Language* does not require citations with full authors, the style language.bst repurposes the starred commands to be used for citing the author. The following table shows how the natbib citation commands work with language.bst.

<table>
<thead>
<tr>
<th>Command</th>
<th>Two authors</th>
<th>More than two authors</th>
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<td>Sprouse et al. (2011)</td>
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<td>\citet*</td>
<td>Hale und White Eagle (1980)</td>
<td>Sprouse and colleagues (2011)</td>
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<td>(Sprouse et al. 2011)</td>
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<td>Sprouse and colleagues</td>
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</table>

Authors of *Language* articles would typically use \citet*, \citep, \citealt and \citeauthor*, though they could use any of the above commands. There is no command for giving a full list of authors.

### 2.3 Bibliography

The bibliography of this template includes the references of the *language* stylesheet as a sample bibliography.
3 General Addenda

If there are several additions you want to add, but they do not fit into the thesis itself, they belong here.

3.1 Detailed Addition

Even sections are possible, but usually only used for several elements in, e.g. tables, images, etc.

4 Figures

4.1 Example 1

4.2 Example 2
List of Figures

List of Tables
Glossary

LMU  A university in Germany, Bavaria, in the city of Munich. [1]
References


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