# Automated Grading of Free-Text Student Submissions Using Large Language Models.

**Subtitle**

**School of Computer Science & Applied Mathematics**
**University of the Witwatersrand**

**Sphamandla Mbuyazi**
**2618115**

**Supervised by Prof. Richard Klein**

**April 6, 2025**

Ethics Clearance Number: XX/XX/XX

A proposal submitted to the Faculty of Science, University of the Witwatersrand, Johannesburg, in partial fulfilment of the requirements for the degree of Bachelor of Science with Honours

**Abstract**

Abstract things....

**Declaration**

I, ———, hereby declare the contents of this research proposal to be my own work. This proposal is submitted for the degree of Bachelor of Science with Honours in Computer Science at the University of the Witwatersrand. This work has not been submitted to any other university, or for any other degree.

**Acknowledgements**

Thanks World.

# Contents

# List of Figures

# List of Tables

# Chapter 1

# Introduction

## 1.1 Hello World

Introduction things...

## 1.2 Another Section

### 1.2.1 This is a Subsection

#### This is a subsubsection

This is just a paragraph

### 1.2.2 A Subsection about Citation Style

Citations are important. Citation style for Computer Science is:

- When used in the text, use the authors with the date in brackets: Klein and Celik [2017] say very important things.
- When used as a reference after a face, put everything in brackets: Import things are true [Klein and Celik 2017].

### 1.2.3 Compiling

Remember to compile multiple times to resolve references. Usually:

```
pdflatex file.tex
bibtex file
pdflatex file.tex
pdflatex file.tex
```

# Chapter 2

# Floats

LaTeX decides how to place images. It also does the referencing for you as seen in Figure 2.1. If you have subimages, they should have their own captions and labels – look into the subfig or subfigure packages.

Figure 2.1: This is an image

Figure captions are at the bottom. Table title are at the top of the table as seen in Table 2.1 on the facing page. There is a package called BookTabs which is *way* better for tables and you should learn how to use that instead.

Usually let LaTeX handle the placement of floats unless you *really* need to force it to do something else. The `float` package used above allows you to use `H` as the placement which means *here and only here*. When using the float package, the placement options are:

1. h – a gentle nudge to place it here if possible
2. t – top of a page
3. b – bottom of a page
4. H – here and only here, do not move it at all
5. p – on its own page

Table 2.1: Table Name

| Col1 | Col2 |
|---|---|
| R0,C0 | R0,C1 |
| R1,C0 | R1,C1 |

# Chapter 3

# Some Referencing Tricks

CleverRef and VarioRef are helpful:

- Normal Ref: See Figure 2.1
- CleverRef: See Figure 2.1 and Table 2.1
- CleverRef+VarioRef: See Figure 2.1 on page 2 and Table 2.1 on the preceding page

# Chapter 4

# IDE/Editors

Overleaf has a great online editor for latex. Use it.

# Appendix A

# Extra Stuff

## A.1 What is an appendix?

An appendix is useful when there is information that you need to include, but breaks the flow of your document, e.g. a large number of figures/tables may need to be shown, but maybe only one needs to be in the text and the rest are just included for completeness.

# References

[Klein and Celik 2017] R. Klein and T. Celik. The Wits Intelligent Teaching System: Detecting student engagement during lectures using Convolutional Neural Networks. In *2017 IEEE International Conference on Image Processing (ICIP)*, pages 2856–2860, Sep. 2017.