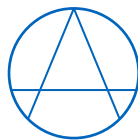# SCHOOL OF COMPUTATION, INFORMATION AND TECHNOLOGY — INFORMATICS

TECHNISCHE UNIVERSITÄT MÜNCHEN

Bachelor's Thesis in Informatics

Seamless Synergy: Unifying Local Development and Cloud Execution in Machine Learning DevOps

Baraa Alnassan

SCHOOL OF COMPUTATION, INFORMATION AND TECHNOLOGY — INFORMATICS

TECHNISCHE UNIVERSITÄT MÜNCHEN

Bachelor's Thesis in Informatics

Seamless Synergy: Unifying Local Development and Cloud Execution in Machine Learning DevOps

Nahtlose Synergie: Vereinheitlichung von lokaler Entwicklung und Cloud-Ausführung in DevOps für maschinelles Lernen

Author:	Baraa Alnassan
Supervisor:	Jens Großklags
Advisor:	Derui Zhu (TUM), Kaio (IT4IPM)
Submission Date:	September 1st 2024

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

Munich, September 1st 2024   Baraa Alnassan

Acknowledgments

Abstract

Contents

!TeX root = ../main.tex

1 Introduction

1.1 Section

Citation test [Lam94].

Acronyms must be added in `main.tex` and are referenced using macros. The first occurrence is automatically replaced with the long version of the acronym, while all subsequent usages use the abbreviation.

E.g. `\ac{TUM}`, `\ac{TUM}` $\Rightarrow$ Technical University of Munich (TUM), TUM

For more details, see the documentation of the `acronym` package[1].

1.1.1 Subsection

See Table 1.1, Figure 1.1, Figure 1.2, Figure 1.3.

Table 1.1: An example for a simple table.

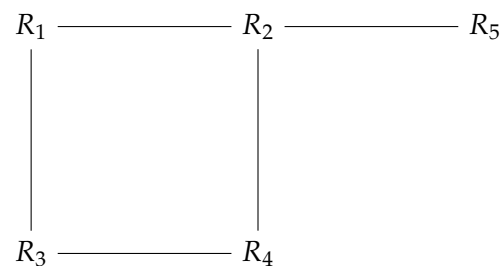| A	B	C	D
1	2	1	2
2	3	2	3

R_1 ——————— R_2 ——————— R_5

R_3 ——————— R_4

Figure 1.1: An example for a simple drawing.

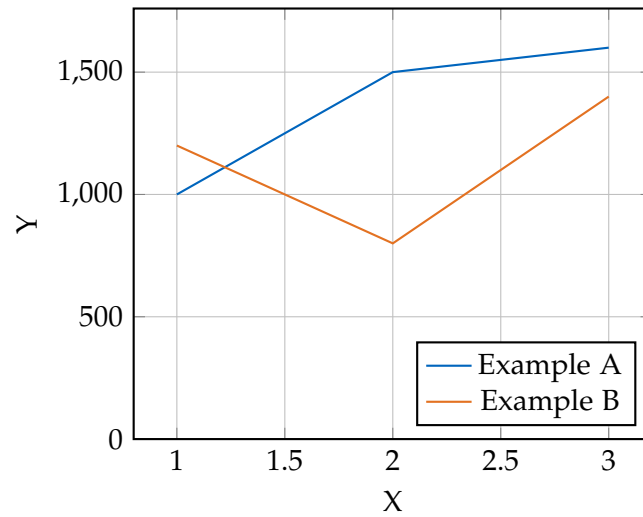---

[1] `https://ctan.org/pkg/acronym`

Figure 1.2: An example for a simple plot.

```
SELECT * FROM tbl WHERE tbl.str = "str"
```

Figure 1.3: An example for a source code listing.

Abbreviations

TUM Technical University of Munich

List of Figures

List of Tables

Bibliography

[Lam94]   L. Lamport. *LaTeX : A Documentation Preparation System User's Guide and Reference Manual*. Addison-Wesley Professional, 1994.