

**WAB**

Provadis School of International Management and Technology

**Comparing Suffix Automata Against Suffix  
Arrays For Longest Common Substring  
Queries**

A Proof-of-Concept Implementation Based On A Real Use Case

Rubin Chempananickal James  
rubin.chempananickal-james@stud-provadis-hochschule.de  
Matriculation Number: D876

Department: Information Technology  
Module: Algorithmen und Datenstrukturen  
Reviewer: Prof. Dr. Volker Scheidemann

# Abstract

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# AI Declaration

The usage of AI tools within this project is documented here. I solemnly declare that I have documented all interactions with AI tools, including the prompts used and the outputs received.

System	Prompt	Usage
GitHub Copilot 1	Asked to delete the existing project and provide a simple LaTeX template with a shared preamble, a Chapters subdirectory, TOC, glossary, abbreviations, and Roman numerals for non-content pages.	Template structure and LaTeX setup provided
GitHub Copilot 2	Requested additional title page lines (WAB header, reviewer, module) for the main document.	Title page metadata and layout updated
GitHub Copilot 3	Requested uppercase Roman numerals for front matter and lowercase Roman numerals for back matter page numbering.	Page numbering adjusted in main and exposee
GitHub Copilot 4	Requested exposee title page to include shared info fields (WAB header, department, module, reviewer).	Exposee title page updated to include shared metadata
GitHub Copilot 5	Requested adding the provadis-hochschule.pdf logo to the top right corner of both main and exposee title pages.	Logo added to top right of both title pages
GitHub Copilot 6	Reported that Glossary and Abbreviations sections were missing from compiled output.	Added example \newacronym entries to abbreviations.tex so the Abbreviations section displays properly
GitHub Copilot 7	Reported that glossary section still not appearing in final PDF.	Updated settings.tex to include automake option in glossaries package to enable automatic glossary generation

# **Declaration of Authorship**

I hereby confirm that I have personally and independently prepared the present work and have not used any sources or aids other than those specified. All passages taken verbatim or in substance from other sources are identified as such. The drawings, illustrations and tables in this work are created by me or have been provided with an appropriate source reference. This work has not been submitted by me to any other university in the same or similar form for the acquisition of an academic degree.

Frankfurt, February 18, 2026 .....

Rubin Chempananickal James