

INSTRUCTIONS FOR PH.D. THESIS PREPARATION USING L^AT_EX TEMPLATE

This document provides guidelines to help Ph.D. scholars use the Karunya Institute of Technology and Sciences L^AT_EX template for thesis preparation. Follow these steps carefully to maintain formatting consistency and produce a thesis that is both professionally formatted and academically sound.

1. SETTING UP L^AT_EX (ONLINE AND OFFLINE)

Option A: Online

Use **Overleaf** - a free, browser-based L^AT_EX editor that lets you work from any device. All you need is a browser and internet access.

Option B: Offline

Step 1: Install a L^AT_EX Distribution

Manual installation steps are available at: [The L^AT_EX Project](#)

Alternatively, based on your OS:

- **Windows:** Install **MiKTeX** from <https://miktex.org> (a safe bet for Windows users).
- **Linux/Mac:** Install **TeX Live** via your package manager or from <https://tug.org/texlive>

Step 2: Install a L^AT_EX Editor

- **TeXstudio** - Recommended. Clean interface.
- **TeXmaker** - Lightweight and functional.
- **VS Code + LaTeX Workshop** - For those already living in VS Code.

Ensure that the `biber` backend is installed, as it manages the bibliography compilation.

Compilation Sequence (When in Doubt, Compile Again):

```
pdflatex -> biber -> pdflatex -> pdflatex
```

2. FOLDER STRUCTURE

`main.tex` is the primary compilation file. The folders look like this:

- `main.tex` – The main file to compile
- `karunya-thesis.cls` – The formatting logic is defined in this file. Scholars are advised not to modify the class file unless specifically instructed.
- `TeX_files/` – Chapters and components
 - `Front_Matter/` – title page, abstract, etc.
 - `Chapter_01/`, `Chapter_02/` – your content goes here
 - `Back_Matter/` – appendix, references, publications, CV

3. COMPILING THE DOCUMENT (THE RIGHT WAY)

To ensure proper bibliography generation:

1. `pdflatex main`
2. `biber main`
3. `pdflatex main` **two additional times** to ensure all references are updated.

4. REFERENCE STYLE (MANDATORY)

As per University guidelines, the prescribed reference style for all Ph.D. theses at Karunya Institute of Technology and Sciences is:

- `apa` – American Psychological Association (APA) Style

The template is pre-configured accordingly in `main.tex`:

```
\newcommand{\referencestyle}{apa}
```

Important: Do not modify or change the reference style command. All Ph.D. scholars, irrespective of division or discipline, must follow APA style unless otherwise specifically instructed by the University.

5. CITING REFERENCES

Add BibTeX entries to `references.bib`.

- Use `\textcite{key}` when author name appears in the sentence.
- Use `\parencite{key}` for citations in parentheses.

Generate your bibliography using `\printbibliography` (already in the template).

6. ADDING CHAPTERS

Each chapter lives in its own file. Add them in `main.tex` like:

```
\include{./TeX_files/Chapter_03/chapter03}
```

7. FIGURES AND TABLES

Folder Tip: Place figures for each chapter in its own folder (e.g., `Chapter_01/`) to maintain proper organization and avoid file misplacement.

Formats: Use high-quality `.pdf`, `.png`, or `.eps` formats (minimum 300 dpi resolution recommended for raster images).

Font Consistency: All text within figures (axis labels, legends, annotations, and embedded text) must be in **Times New Roman**, consistent with the thesis body font. Ensure fonts are properly embedded in exported PDF figures.

Captions: Provide a concise caption for the List of Figures entry and a descriptive caption below the figure explaining the content clearly.

```
\caption[Short for LoF]{Longer caption goes here.}
```

Figure Template:

```
\begin{figure}[H]
  \centering
  \includegraphics[width=0.8\textwidth]{image.pdf}
  \caption[Short Caption]{Long Caption.}
  \label{fig:sample}
\end{figure}
```

Table Template:

```

\begin{table}[H]
  \centering
  \begin{tabular}{|c|c|c|}
    \hline A & B & C \\ \hline
    1 & 2 & 3 \\ \hline
  \end{tabular}
  \caption{This table has all the numbers you need.}
  \label{tab:sample}
\end{table}

```

To reference a figure or table in your text, use the label you assigned:

- For figures: `Figure~\ref{fig:sample}` will render as “Figure 1.1”
- For tables: `Table~\ref{tab:sample}` will render as “Table 1.1”

Let $\text{\LaTeX}$ handle the numbering for you. Never hardcode figure or table numbers.

Important: Do **NOT** insert equations or tables as image files – always use proper $\text{\LaTeX}$ environments such as `equation`, `align`, `tabular`, or `longtable`. Name your image files meaningfully (e.g., `fig_ch1_methodology.pdf`, `fig_ch3_output.png`) and store them chapter-wise for your own sanity during revisions.

8. EQUATIONS

Equations are numbered like 2.3 (Chapter 2, Equation 3).

Example:

```

\begin{equation}
  E = mc^2
  \label{eq:einstein}
\end{equation}

```

Reference it using `\ref{eq:einstein}`.

9. SMART REFERENCING WITH AUTOREF

L^AT_EX automatically handles numbering for figures, tables, equations, sections, etc. While the classic `\ref{}` command works fine, you can improve clarity by using `\autoref{}` provided by the `hyperref` package.

The `autoref` command automatically includes the type (Figure, Table, Equation, Section, etc.) before the number, and formats it consistently.

Examples:

- `\autoref{fig:sample}` → Figure 1.1
- `\autoref{tab:results}` → Table 2.3
- `\autoref{eq:nonlinear}` → Equation 3.5
- `\autoref{sec:literature}` → Section 1.2

There's no need to manually write "Figure `\ref{}`" anymore. Just use `\autoref{}` and let L^AT_EX take care of the formatting.

Note: `autoref` works out of the box with this template because the `hyperref` package is already included.

10. BACK MATTER

Located in `TeX_files/Back_Matter/`. Already included in `main.tex`.

Use appropriate headings:

```
\chapter{Appendix A: Supporting Derivations}
\chapter{List of Publications}
\chapter{Curriculum Vitae}
```

11. FORMATTING REMINDERS

- 1.5 line spacing is built-in
- Times New Roman is enforced
- Use `\MakeUppercase{ }` for all-caps
- Add unnumbered sections to ToC manually:

```
\addcontentsline{toc}{chapter}{Acknowledgement}
```

12. NEED HELP?

Seek guidance from your supervisor, [Google](#) it, post on [TeX StackExchange](#), or just ask [ChatGPT](#).

FULL TITLE OF THE THESIS IN ALL CAPS

A THESIS

submitted by

**FULL NAME OF THE SCHOLAR
(REGISTER NUMBER)**

in partial fulfillment for the requirement of award of the degree of

DOCTOR OF PHILOSOPHY

in

NAME OF THE DIVISION

under the supervision of

Dr. NAME OF THE SUPERVISOR

and the joint supervision of

Dr. NAME OF THE JOINT-SUPERVISOR

NAME OF THE SCHOOL



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

MoE, UGC & AICTE Approved; NAAC Accredited A++

Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India.

JANUARY 2026

DECLARATION

I, **FULL NAME OF THE SCHOLAR (REGISTER NUMBER)** hereby declare that the thesis, entitled **FULL TITLE OF THE THESIS IN ALL CAPS**, submitted to the **Karunya Institute of Technology and Sciences**, in partial fulfillment of the requirements for the award of the Degree of **Doctor of Philosophy** in **NAME OF THE DIVISION** is a record of original and independent research work done by me during the period 20XX – 20XX, under the supervision and guidance of Dr. Name of the Supervisor, Designation of Supervisor, Division Name, Karunya Institute of Technology and Sciences, and under the Joint-Supervision of Dr. Name of the Joint-Supervisor, Designation of Joint-Supervisor, Division of Joint-Supervisor, Institution of Joint-Supervisor. The work contained in this thesis has not been previously submitted to meet the requirements for a degree or diploma at this or any other higher education institution.

I understand that Karunya Institute of Technology and Sciences shall hold the copyrights of all thesis/dissertations submitted to the University. I will republish the entire thesis/extracts of the thesis only with the permission of Karunya Institute of Technology and Sciences and I am liable to pay 40% of royalty to Karunya Institute of Technology and Sciences. If I engage in documenting any research findings with an intention of publishing it for commercial purpose, I shall obtain a NOC from the Office of the Registrar prior to engaging in such activities.

FULL NAME OF THE SCHOLAR

BONAFIDE CERTIFICATE

Certified that this Thesis titled **FULL TITLE OF THE THESIS IN ALL CAPS** is the bonafide work of **FULL NAME OF THE SCHOLAR (REGISTER NUMBER)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other scholar.

**Dr. NAME OF THE
JOINT-SUPERVISOR**
JOINT-SUPERVISOR

Designation of Joint-Supervisor

Dr. NAME OF THE SUPERVISOR
SUPERVISOR

Designation of Supervisor

Countersigned by

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KITS

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KITS

ABSTRACT

The abstract should provide a concise, structured summary of the thesis, typically within four pages, and must outline the research problem, the methodology adopted, and the significant findings. It should be written in a formal, essay-style narrative and be self-contained-understandable without reference to the rest of the document.

This placeholder demonstrates the layout and tone expected for an abstract section. A well-written abstract typically addresses four key questions: What was the research problem? Why was it important? How was it approached? And what were the outcomes?

For illustration, this sample abstract summarizes a fictional study where a hybrid deep learning model integrating Convolutional Neural Networks (CNNs) and Transformer-based architectures was developed to classify banana ripeness in agricultural robotics. The dataset, curated under diverse lighting conditions and labeled through crowdsourcing, was used to train the model in a two-stage process. The resulting model demonstrated high classification accuracy and reduced inference time, making it viable for deployment on edge devices such as Raspberry Pi.

This example is intended purely to showcase formatting and should be replaced with your actual research summary, including the central research problem, methodology, results, and significance of findings.

ACKNOWLEDGEMENT

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I express my profound gratitude to my Supervisor, **Dr. Name of the Supervisor**, Designation of Supervisor, Division Name, Karunya Institute of Technology and Sciences, for his invaluable guidance, constant encouragement, and insightful suggestions throughout the course of this research. His academic rigor, constructive criticism, and unwavering support have significantly shaped the direction and quality of this work. I am deeply indebted to him for his patience and mentorship at every stage of this doctoral journey.

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Full Name of the Scholar

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LIST OF SYMBOLS AND ABBREVIATIONS

SYMBOLS

α	Rake angle (degrees)
β	Clearance angle (degrees)
d	Depth of cut (mm)
f	Feed rate (mm/rev)
F_c	Cutting force (N)
k	Thermal conductivity (W/mK)
Q	Material removal rate (mm ³ /s)
Ra	Surface roughness (μ m)
ω	Angular velocity (rad/s)
η	Process efficiency (%)
μ	Coefficient of friction
ρ	Density (kg/m ³)
σ	Tensile stress (MPa)

ABBREVIATIONS

AI	Artificial Intelligence
Al-TiB ₂	Aluminium–Titanium Diboride
ANN	Artificial Neural Network
CNC	Computer Numerical Control
IoT	Internet of Things
ML	Machine Learning
MQL	Minimal Quantity Lubrication
MRR	Material Removal Rate
SEM	Scanning Electron Microscope

CHAPTER 1

INTRODUCTION

This chapter introduces your research, outlines the context, explains the rationale, and sets the stage for the rest of your thesis. It also demonstrates the basic $\text{\LaTeX}$ environments you will frequently use. All formatting aspects like **margins**, **line spacing**, and **font style** are pre-defined in the class file (`karunya-thesis.cls`). Do not attempt to change it unless you are a $\text{\LaTeX}$ expert and even then, modifications are discouraged.

1.1 PURPOSE OF THIS CHAPTER

This chapter serves as a demonstration section to illustrate how to:

- Cite references using BibLaTeX
- Use sections, subsections, and subsubsections
- Insert equations with chapter-wise numbering
- Add figures and tables with proper captions and labels

1.2 REFERENCE CITATION DEMO

Managing references is easy in $\text{\LaTeX}$ when you use a BibTeX-compatible reference manager. Here are some commonly used tools:

- **Zotero** - A free, beginner-friendly tool with a browser extension and cloud sync. Great for collecting references from the web and collaborating with others.
- **Mendeley** - Ideal for researchers in collaborative or cross-disciplinary environments. Offers PDF annotation, cloud storage, and citation integration with Word and $\text{\LaTeX}$.
- **JabRef** - A BibTeX-native reference manager built specifically for $\text{\LaTeX}$ users. Best suited for those working extensively with ‘.bib’ files and needing advanced BibTeX key management.

All these tools allow you to export your references to a .bib file, which you can load into your L^AT_EX project.

To cite within your document, use:

- `\parencite{key}` for parenthetical citations
- `\textcite{key}` when the author’s name forms part of the sentence

Your bibliography will be automatically generated and formatted according to the selected reference style (APA, IEEE, etc.).

Note: All references cited in this section are fictitious and are included solely to demonstrate citation and bibliography features of the L^AT_EX thesis template.

Template discipline matters. Daniel and Emily (2023) provides a structured approach to thesis layout and referencing, and the same source can also be cited parenthetically (Daniel & Emily, 2023). Figure-handling failures are often less “mystery” and more “missing file path”, as shown by Oliver (2021). For multi-author works, conference and journal examples are useful: energy-aware routing is reported by Mitchell et al. (2022) (three authors), while low-power edge intelligence is examined in (Parker et al., 2024) (three authors). For single-author classics, citations often read very cleanly in text—see Maxwell (1873). Finally, online sources can be cited like any other work (Community, 2024; Team, 2023).

How to Refer to Things in L^AT_EX

Here’s how to refer to:

- a **figure** - “as shown in Figure 1.1”
- a **table** - “see Table 1.1”
- an **equation** - “from Equation 1.1”

1.3 QUOTES IN L^AT_EX

Use quotes sparingly and only when relevant. Below is a demonstration of the `quote` environment:

“Success is the sum of small efforts, repeated day in and day out.”
– Robert Collier

1.4 FIGURES WITH CAPTIONS

Use high-resolution figures (minimum 300 dpi for raster images), preferably in .pdf, .png, or .eps format, and include a meaningful caption. All text within figures (axis labels, legends, annotations, and embedded text) must be in **Times New Roman**, consistent with the thesis body font, and fonts must be properly embedded in exported files. The short caption (inside square brackets) appears in the List of Figures.

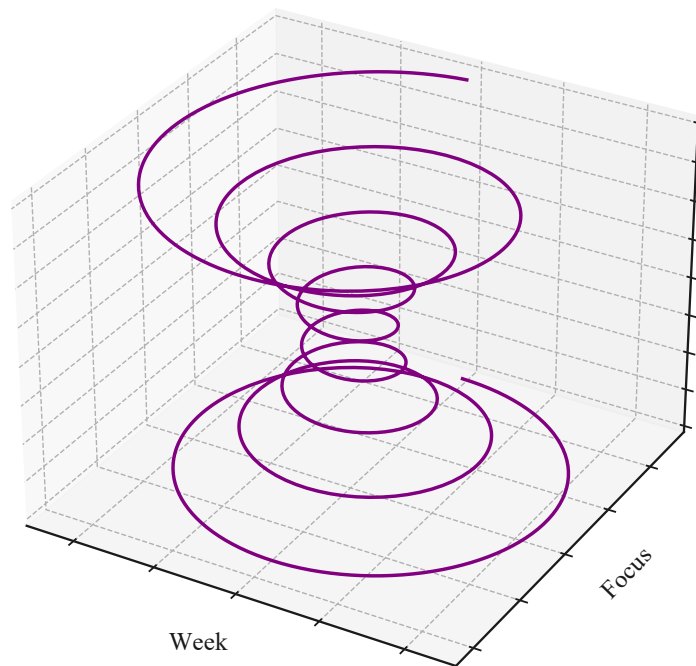


Figure 1.1: A hypothetical spiral showing thesis-related emotional states during various stages of writing.

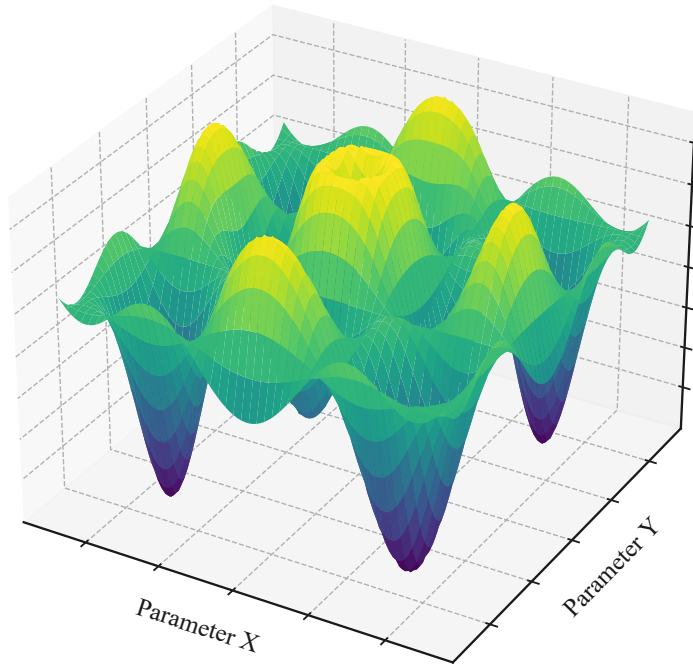


Figure 1.2: An imaginary loss landscape visualized during model training.

1.5 TABLES WITH USEFUL DATA

Keep tables clear and concise. Use the `tabular` environment and give each table a unique label.

Table 1.1: Mean word count observed across chapters in this template.

Chapter	Mean Words	Mood Level
Introduction	1200	Optimistic
Methodology	5000	Serious
Results	6000	Sleep-Deprived
Conclusion	3000	Triumphant

1.6 EQUATIONS AND CHAPTER-WISE NUMBERING

Equations are automatically numbered as (1.1), (1.2), ... in Chapter 1. This formatting is already implemented in the class file.

$$i\frac{\partial\psi}{\partial t} + \frac{1}{2}\frac{\partial^2\psi}{\partial x^2} + |\psi|^2\psi = 0 \quad (1.1)$$

Equation 1.1 is the nonlinear Schrödinger equation. Understanding this equation is not required unless you are in quantum optics.

1.7 GRAPH TOOLS FOR THESIS FIGURES

Here are some tools you may use to generate professional plots for your thesis:

- [Matplotlib](#) - Python's powerful plotting library.
- [Seaborn](#) - Statistical data visualization in Python.
- [OriginLab](#) - Great for publication-quality plots.
- [Inkscape](#) - Best for vector illustrations and diagrams.

Ensure graphs are exported at 300 dpi minimum, with axis labels, legends, and annotations in Times New Roman font.

1.8 CONCLUSION

This chapter walks you through the common environments and their recommended usages. Chapter 2 will include more placeholder content, demo equations, and remaining figures. Replace it with your actual content while keeping the structure intact.

CHAPTER 2

PLACEHOLDER CONTENT AND ADDITIONAL DEMONSTRATIONS

This chapter contains placeholder content that you may replace with your own thesis material. It also serves as a continuation of demonstrating L^AT_EX environments like advanced equations, tables, figures, and reference formatting.

2.1 COMPLEX EQUATIONS AND PHYSICS DEMOS

Here is an example of Maxwell's equations in differential form:

$$\begin{aligned}
 \nabla \cdot \vec{E} &= \frac{\rho}{\epsilon_0}, \\
 \nabla \cdot \vec{B} &= 0, \\
 \nabla \times \vec{E} &= -\frac{\partial \vec{B}}{\partial t}, \\
 \nabla \times \vec{B} &= \mu_0 \vec{J} + \mu_0 \epsilon_0 \frac{\partial \vec{E}}{\partial t}
 \end{aligned} \tag{2.1}$$

Equation 2.1 is often cited in studies involving electromagnetic wave propagation (Jackson, 1998).

2.2 ADVANCED TABLES WITH STYLING

Below is a sample table showing hierarchical cell merging and enhanced border styling.

Table 2.1: Comparison of Formatting Features in Popular Thesis Writing Tools

Tool	BibTeX Support	High DPI Output	Recommended For
L ^A T _E X (Overleaf, TeXstudio)	Yes	PDF (300+ dpi), vector formats	Research Theses, Journal Submissions
MS Word + Zotero	Yes	PNG, JPEG (72-150 dpi)	Internal Reports, Formatting Practice
Google Docs + Mendeley	Partial	PNG (Low DPI)	Quick Collaborations, Drafting

Another table showing alignment and styling for numeric data:

Table 2.2: Multisensor Data Capture Output

Sensor ID	Time 1 (ms)	Time 2 (ms)	Time 3 (ms)	Mean (ms)
S1	123.5	121.8	125.0	123.4
S2	98.3	100.1	99.7	99.4
S3	115.0	114.7	116.2	115.3

2.3 DEMONSTRATING RICH CITATIONS

Note: All references cited in this section are fictitious and are included solely to demonstrate citation and bibliography features of the $\LaTeX$ thesis template.

The use of $\LaTeX$ in academic thesis writing has significantly increased in recent years, offering enhanced control over layout, bibliography management, and cross-referencing (Community, 2024; Daniel & Emily, 2023; George et al., 2025; Oliver, 2021). In particular, tools like Overleaf have helped scholars collaborate efficiently in a cloud-based environment (Developers, 2021; Team, 2023).

The clarity and typesetting of mathematical content using $\LaTeX$ remain unparalleled, especially in the context of engineering and physics research (Maxwell, 1873). While modern word processors have evolved, most experts agree that $\LaTeX$ ensures long-term compatibility, reproducibility, and presentation quality.

In addition to conventional journal and conference literature, scholarly writing frequently draws upon a wider range of research outputs. Book chapters often provide focused surveys and domain overviews (Price & Alvarez, 2022), while institutional reports are commonly referenced for policy and governance perspectives (Lopez & Schmidt, 2022). Theses remain an important source of methodological and experimental detail, both at the doctoral level (Carter, 2024) and the master’s level (Evans, 2021). Increasingly, datasets supporting empirical studies are cited as independent research outputs (Morris & Park, 2024), and preliminary or ongoing research may also be referenced where appropriate (Jose & George, 2025).

2.4 ADDITIONAL FIGURES

Figures Figure 2.1 and Figure 2.2 demonstrate $\LaTeX$ ’s ability to handle high-quality visual content.

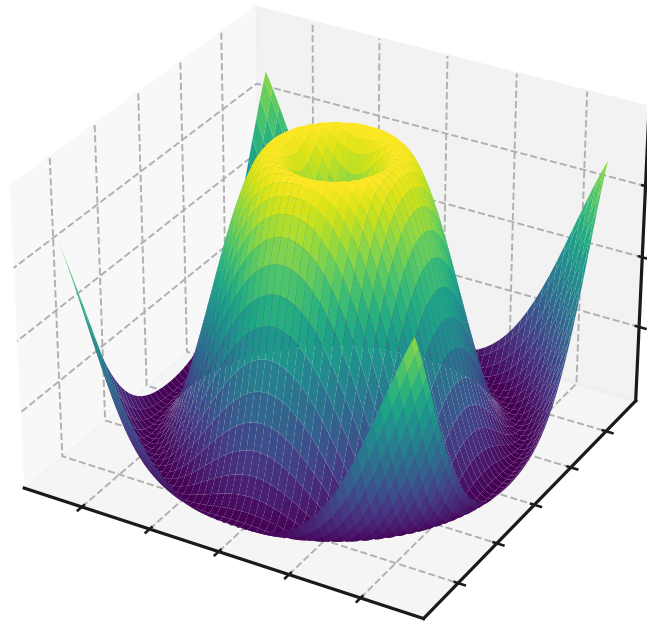


Figure 2.1: A 3D surface plot visualizing $z = \sin(\sqrt{x^2 + y^2})$, demonstrating graphical rendering capabilities in LaTeX.

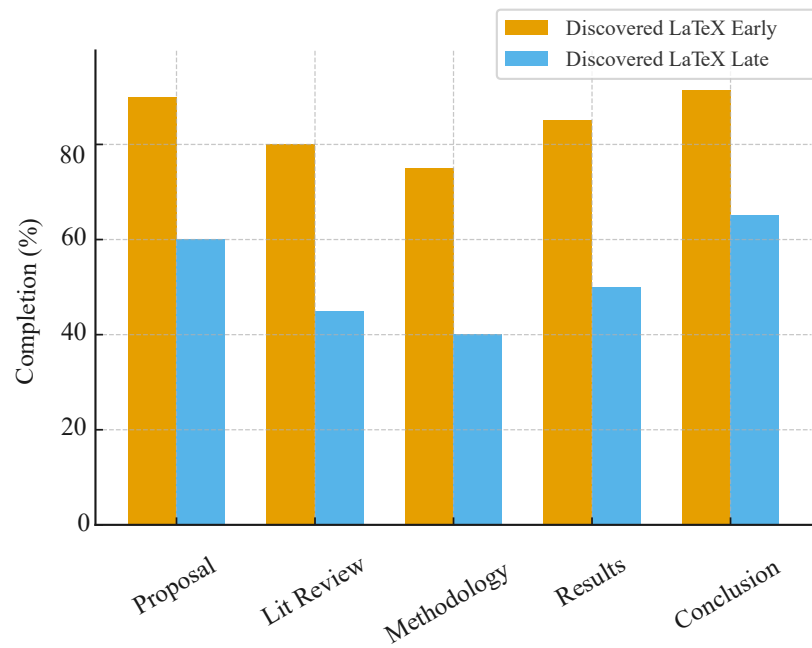


Figure 2.2: Illustrative comparison of thesis preparation progress.

2.5 CONCLUSION

This chapter continues our demonstration of $\text{\LaTeX}$ capabilities. Replace it with your real content, but feel free to copy structure, equation formatting, table styles, or referencing style.

APPENDIX A: SUPPLEMENTARY DATA AND VISUALS

This appendix provides supplementary material that supports the core content of the thesis. It includes:

- Extended tables

Table 2.3: Performance Comparison Across Multiple Machine Learning Models

Model	Accuracy	Precision	Recall	F1-Score	Params	Latency (ms)	Power (W)	Cost (\$)	Training Time (hrs)	Remarks
CNN-Baseline	91.2%	89.5%	90.1%	89.8%	2.3M	110	1.5	250	8.4	Good performance
HybridNet-V1	94.7%	93.8%	94.2%	94.0%	3.1M	98	1.4	300	10.5	Better on edge
DeepTransformer	96.5%	96.0%	95.7%	95.9%	7.6M	135	2.1	700	14.2	High accuracy
TinyEdgeNet	90.0%	88.2%	89.4%	88.8%	1.1M	80	1.2	200	7.1	Lightweight model
Classic ML	84.2%	82.5%	83.1%	82.8%	–	45	0.9	100	1.8	Baseline only
Experimental X1	97.2%	96.9%	97.0%	96.9%	5.5M	150	2.3	850	11.6	Research only
StudentNet	88.5%	87.0%	87.8%	87.4%	900k	72	1.1	180	6.9	Designed by scholar

APPENDIX B: SAMPLE LONG TABLE

This section demonstrates a longtable spanning multiple pages, useful for displaying large experimental datasets, sensor logs, or tabulated results.

Table 2.4: Extended Sensor Log: Multisession Output Across Repeated Trials

Sensor ID	Session 1 (ms)	Session 2 (ms)	Session 3 (ms)	Average (ms)
S001	120.3	118.9	119.7	119.6
S002	121.4	120.8	122.1	121.4
S003	119.7	118.5	120.3	119.5
S004	123.4	124.2	122.9	123.5
S005	118.0	117.6	118.3	118.0
S006	116.4	115.9	116.2	116.2
S007	117.5	118.1	117.2	117.6
S008	119.1	118.7	118.5	118.8
S009	120.2	119.6	120.0	119.9
S010	118.9	118.3	118.7	118.6
S011	122.0	121.4	121.9	121.8
S012	120.5	120.1	119.8	120.1
S013	123.3	122.7	123.5	123.2
S014	124.5	125.1	124.0	124.5
S015	121.2	120.6	121.0	120.9
S016	117.0	117.3	116.9	117.1
S017	119.6	119.1	118.9	119.2
S018	120.4	121.0	120.2	120.5
S019	122.8	123.1	123.4	123.1
S020	118.3	118.7	119.0	118.7
S001	120.3	118.9	119.7	119.6
S002	121.4	120.8	122.1	121.4
S003	119.7	118.5	120.3	119.5
S004	123.4	124.2	122.9	123.5
S005	118.0	117.6	118.3	118.0
S006	116.4	115.9	116.2	116.2

(Continued on next page)

(Continued from previous page)

Sensor ID	Session 1 (ms)	Session 2 (ms)	Session 3 (ms)	Average (ms)
S007	117.5	118.1	117.2	117.6
S008	119.1	118.7	118.5	118.8
S009	120.2	119.6	120.0	119.9
S010	118.9	118.3	118.7	118.6
S011	122.0	121.4	121.9	121.8
S012	120.5	120.1	119.8	120.1
S013	123.3	122.7	123.5	123.2
S014	124.5	125.1	124.0	124.5
S015	121.2	120.6	121.0	120.9
S016	117.0	117.3	116.9	117.1
S017	119.6	119.1	118.9	119.2
S018	120.4	121.0	120.2	120.5
S019	122.8	123.1	123.4	123.1
S020	118.3	118.7	119.0	118.7
S001	120.3	118.9	119.7	119.6
S002	121.4	120.8	122.1	121.4
S003	119.7	118.5	120.3	119.5
S004	123.4	124.2	122.9	123.5
S005	118.0	117.6	118.3	118.0
S006	116.4	115.9	116.2	116.2
S007	117.5	118.1	117.2	117.6
S008	119.1	118.7	118.5	118.8
S009	120.2	119.6	120.0	119.9
S010	118.9	118.3	118.7	118.6
S011	122.0	121.4	121.9	121.8
S012	120.5	120.1	119.8	120.1
S013	123.3	122.7	123.5	123.2
S014	124.5	125.1	124.0	124.5
S015	121.2	120.6	121.0	120.9
S016	117.0	117.3	116.9	117.1
S017	119.6	119.1	118.9	119.2
S018	120.4	121.0	120.2	120.5
S019	122.8	123.1	123.4	123.1
S020	118.3	118.7	119.0	118.7

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1. Scholar, A., & Supervisor, D. (2024). Optimization of minimum quantity lubrication strategies for hybrid metal matrix composites. *Journal of Advanced Manufacturing Research*, 12(3), 215–228.
2. Scholar, A., & Guide, B. (2023). Sustainable machining performance using vegetable-oil-based cutting fluids. *International Journal of Sustainable Manufacturing Systems*, 9(2), 101–114.

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1. Scholar, A., & Supervisor, D. (2023, July). Comparative evaluation of lubrication strategies in precision turning. In *Proceedings of the International Conference on Mechanical Engineering and Manufacturing Systems* (pp. 55–60). Chennai, India: IEEE.
2. Scholar, A., & Guide, B. (2022, December). Surface roughness analysis during turning of hybrid metal matrix composites. In *Proceedings of the Global Symposium on Materials Processing and Engineering* (pp. 120–125). Coimbatore, India: Springer.

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Publications:

- Author, "Paper Title," *Journal/Conference*, Year.
- ...

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