

# **Main Title**



By

**Student Name**

**Spring-2022-MS-CS CMSID School**

Supervisor

**Supervisor Name**

**Department of Computing**

A thesis submitted in partial fulfillment of the requirements for the degree of Masters of  
Science in Computer Science (MS CS)

In

School of Electrical Engineering & Computer Science (SEECS) ,  
National University of Sciences and Technology (NUST),  
Islamabad, Pakistan.

(August 2023)

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Date: \_\_\_\_\_

Committee Member 1: Member 1

Signature: \_\_\_\_\_

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Name of Advisor: **adviser**

Date: \_\_\_\_\_

Signature (HoD): \_\_\_\_\_

Date: \_\_\_\_\_

Signature (Dean/Principal): \_\_\_\_\_

Date: \_\_\_\_\_

# Dedication

This thesis is dedicated to all the deserving children who do not have access to quality education especially young girls.

# Certificate of Originality

I hereby declare that this submission is my own work and to the best of my knowledge it contains no materials previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any degree or diploma at adviserAffiliation at school or at any other educational institute, except where due acknowledgement has been made in the thesis. Any contribution made to the research by others, with whom I have worked at school or elsewhere, is explicitly acknowledged in the thesis. I also declare that the intellectual content of this thesis is the product of my own work, except for the assistance from others in the project's design and conception or in style, presentation and linguistics which has been acknowledged.

Author Name: **author**

Signature: \_\_\_\_\_

# Acknowledgments

Glory be to Allah (S.W.A), the Creator, the Sustainer of the Universe. Who only has the power to honour whom He please, and to abase whom He please. Verily no one can do anything without His will. From the day, I came to NUST till the day of my departure, He was the only one Who blessed me and opened ways for me, and showed me the path of success. Their is nothing which can payback for His bounties throughout my research period to complete it successfully.

**author**

# Abstract

Abstract...

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# List of Abbreviations and Symbols

## Abbreviations

NUST National University of Sciences and Technology

SEecs School of Electrical Engineering and Computer Sciences

## CHAPTER 1

# Introduction and Motivation

This is a general introduction to what the thesis proposal for School of Electrical Engineering and Computer Sciences ([SE ECS](#)). National University of Sciences and Technology ([NUST](#)) is all about. Keep in mind that it is not just a description of the contents of each section.

Briefly summarize the research question(s), some of the reasons why it is a worthwhile question. Details of these questions will be stated in the later sections. It also recommended giving a birds-eye-view of the candidate solutions and possible out comes.

## 1.1 Problem Statement and Contribution

Different disciplines have varying naming conventions. In engineering, thesis tend to refer to problem(s) to be solved where other disciplines talk in terms of question(s) to be answered. In either case, this section has three main parts:

- A concise statement of the question(s) that your thesis shall tackle.
- Justification, by direct reference to literature review from previous section that your question is previously unanswered.
- Discussion of why it is worthwhile to answer this question.

Since this is one of the sections that the readers are definitely looking for, describe the issues more clearly by dividing this section into multiple subsections such as a spate section for "Aims", another for listing "Original Contributions", and yet another for mentioning the "Limitations".

## CHAPTER 2

# Literature Review

Here you review the state of the art relevant to your thesis proposal. The idea is to present the major ideas in the state of the art right up to, but not including, your own personal brilliant ideas. Critical analysis and comparisons should be made by pointing out the weakness of existing solutions and strengths of your proposal. You organize this section by idea, and not by author or by publication.

In certain situations, a background of the underlying concepts is required for better understanding of the research problem and also to improve the flow of the thesis. This could either be made an introductory part of this section or separately written in a prior section.

Reference Type	Citation
Article	[4]
Book	[7, p.127-133]
InProceedings	[5]
InCollection	[5]
PhD Dissertation	[5]
Masters Thesis	[6]
Technical Report	[5]
Misc	[3]

**Table 2.1:** Citation Styles.

## CHAPTER 3

# Methodology

This part of the thesis is much more free-form. It may have several subsections. But it all has only one purpose: to convince the examiners about the answer to the research question(s) or solution to the problem(s) that you set for yourself in the proposal.

**Definition 3.1** (Testing 1,2,3). *This definition is placed within a chapter so is its number.*



**Figure 3.1:** NUST Emblem.

## CHAPTER 4

# Results

So show what you did so far (implementation and testing) that is relevant to answering the question(s) or solving the problem(s).

## CHAPTER 5

# Discussion

### 5.1 Section 1

Led ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

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### 5.1.1 Subsection 1

Led ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem (see Fig. 5.1). Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur? [2, 1]



**Figure 5.1:** The caption of the figure goes here.

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### 5.1.2 Subsection 2

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**Figure 5.2:** The caption of the figure goes here.

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## 5.2 Section 2

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### **5.2.2 Subsection 2**

Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur.

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## CHAPTER 6

# Conclusion

### 6.1 Section 1

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#### 6.1.1 Subsection 1

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$$\begin{aligned}
 A &= \frac{\pi r^2}{2} \\
 &= \frac{1}{2}\pi r^2
 \end{aligned}
 \tag{6.1.1}$$

Adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur? [2, 1]

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
1, 1	1, 2	1, 3	1, 4
2, 1	2, 2	2, 3	2, 4
3, 1	3, 2	3, 3	3, 4
4, 1	4, 2	4, 3	4, 4

**Table 6.1:** The caption of the table goes here.

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$$\begin{aligned}
 p(x) &= 3x^6 + 14x^5y + 590x^4y^2 + 19x^3y^3 \\
 &\quad - 12x^2y^4 - 12xy^5 + 2y^6 - a^3b^3
 \end{aligned}
 \tag{6.1.2}$$

## 6.1.2 Subsection 2

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## **6.2 Section 2**

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## **6.3 Future Work**

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## CHAPTER 7

# Recommendations

This chapter presents the recommendation of the proposed work.

# Bibliography

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## APPENDIX A

# **Achievements**

If the thesis resulted to produce any publications or any product. This can be listed here.

## APPENDIX B

# Appendix A

The separate numbering of appendices is also supported by LaTeX. The *appendix* macro can be used to indicate that following chapters are to be numbered as appendices. Only use the *appendix* macro once for all appendices.

**Th.ECL (MS Thesis Evaluation Check List)**

Student Name:

Registration:

**Cover and title page of the thesis**

- T1. Student's name and registration number is written.
- T2. Supervisor's name is mentioned.
- T3. Title of the degree is written correctly.
- T4. University and school's name are written correctly.
- T5. Date of completion/defense (only year and month) is mentioned.

**Style and formatting issues**

- S1. Consistent font (Times New Roman) is used throughout the thesis.
- S2. Page numbering is done appropriately.
- S3. Figures are readable and are aligned correctly.
- S4. Captions for tables and figures use consistent format and style.
- S5. Table of Contents/Figures/Tables follow proper indentation/styling.
- S6. Chapter name and numbering follows consistent style.

**References/Bibliography**

- R1. References are sorted on last name of authors (or in the order of citation in the text).
- R2. References follow consistent style such as ACM or IEEE-Tran.
- R3. Mandatory slots of references are filled correctly (such as Author, Title, Journal, Year).

**General Issues**

- G1. Certificate of Originality signed by the student is present.
- G2. Plagiarism report (from Euphorus) signed by supervisor is presented along with the thesis.
- G3. Thesis is submitted within allowed time span for completion of thesis.

**Abstract (Note: This section covers only the abstract of the thesis)**

- A1. There are no typing or grammatic mistakes in the abstract.
- A2. Problem statement is clearly mentioned.
- A3. Background to problem statement is also explained.
- A4. Startling statement (preferably a paragraph) about the thesis/hypothesis is present.
- A5. Implication of the startling statement is demonstrated briefly.

**Results, Evaluation, and Conclusion**

- E1. Research is validated either empirically or analytically (Note: This doesn't cover quality of the results).
- E2. Outcome of this thesis is contrasted with other similar research initiatives.
- E3. Significance of this research is discussed in appropriate length.

**Thesis Format**

**Sno HQ NUST Format**

- 1 Title Page
- 2 Thesis Acceptance Certificate
- 3 Approval Page
- 4 Dedicatoin
- 5 Certificate of Originality
- 6 Acknowledgement
- 7 Table of Contents
- 8 List of Abbreviation
- 9 List of Tables
- 10 List of Figures
- 11 Abstract
- 12 Main Body

**Checklist for Components in Main Body**

Sno	HQ NUST Fromat
1	Introduction
2	Literature Review
3	Methodology
4	Results
5	Discussion
6	Conclusion
7	Recommandation
8	Reference
9	Appendices
10	Index (Optional)

**Additional Remarks:**


**OiC MS Thesis:**

**Date:**

**Th.ECL (MS Thesis Evaluation Check List)**

Student Name:		
Registration:		
<b>Cover and title page of the thesis</b>		
T1.	Student's name and registration number is written.	
T2.	Supervisor's name is mentioned.	
T3.	Title of the degree is written correctly.	
T4.	University and school's name are written correctly.	
T5.	Date of completion/defense (only year and month) is mentioned.	
<b>Style and formatting issues</b>		
S1.	Consistent font (Times New Roman) is used throughout the thesis.	
S2.	Page numbering is done appropriately.	
S3.	Figures are readable and are aligned correctly.	
S4.	Captions for tables and figures use consistent format and style.	
S5.	Table of Contents/Figures/Tables follow proper indentation/styling.	
S6.	Chapter name and numbering follows consistent style.	
<b>References/Bibliography</b>		
R1.	References are sorted on last name of authors (or in the order of citation in the text).	
R2.	References follow consistent style such as ACM or IEEE-Tran.	
R3.	Mandatory slots of references are filled correctly (such as Author, Title, Journal, Year).	
<b>General Issues</b>		
G1.	Certificate of Originality signed by the student is present.	
G2.	Plagiarism report (from Euphorus) signed by supervisor is presented along with the thesis.	
G3.	Thesis is submitted within allowed time span for completion of thesis.	
<b>Abstract (Note: This section covers only the abstract of the thesis)</b>		
A1.	There are no typing or grammatic mistakes in the abstract.	
A2.	Problem statement is clearly mentioned.	
A3.	Background to problem statement is also explained.	
A4.	Startling statement (preferably a paragraph) about the thesis/hypothesis is present.	
A5.	Implication of the startling statement is demonstrated briefly.	
<b>Results, Evaluation, and Conclusion</b>		
E1.	Research is validated either empirically or analytically (Note: This doesn't cover quality of the results).	
E2.	Outcome of this thesis is contrasted with other similar research initiatives.	
E3.	Significance of this research is discussed in appropriate length.	