

THESIS

THESIS TITLE

Written to meet a partial academic requirement to obtain
the degree of *Magister Komputer*

Written by:

NAME : Your Name

STUDENT NUMBER : 01679yynnnn



UPH

Universitas Pelita Harapan

**STUDY PROGRAM OF INFORMATICS MASTER PROGRAM
FACULTY OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCES
UNIVERSITAS PELITA HARAPAN
JAKARTA**

2026



ORIGINALITY STATEMENT OF THE THESIS

I am a student of Study Program of Informatics Master Program. Faculty of Artificial Intelligence and Data Sciences, Universitas Pelita Harapan,

Name : Your Name
Student Number : 01679yynnnn
Concentration : Your Concentration

hereby declare that my thesis, entitled: **“Thesis Title”**

1. is an original piece of work, written and completed by myself, based on the lecture notes, field studies, journals, reference books, and other resources as listed in the works cited section in this thesis;
2. is not a duplication of any published article, or the one proposed to obtain a post-graduate degree at another university, except for the quotations that include the information or respective references; and
3. is not a translation of any other works, such as textbooks or journal articles.

I understand that if my statements above are proven to be incorrect, this thesis is considered to be a failure.

Jakarta, 1 December 2026

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FACULTY OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCES

THESIS SUPERVISOR'S APPROVAL

LINE 1: YOUR THESIS TITLE

LINE 2: YOUR THESIS TITLE

LINE 3: YOUR THESIS TITLE

Written by :

Name : Your Name

Student Number: 01679yynnnn

Study Program : Informatics

Concentration : Your Concentration

This thesis has been approved to be lodged for the thesis defense to obtain the degree of Magister Komputer in the Faculty of Artificial Intelligence and Data Sciences at Universitas Pelita Harapan, Jakarta

Jakarta, Date Month Year

Approved by:

Thesis Supervisor

(Your Supervisor)

Head of Master of Informatics Program Dean of Faculty of AI and Data Sciences

(Program Chair)

(Dean of Faculty)



THESIS EXAMINATION COMMITTEE

On **Date Month Year**, a thesis defense was conducted as a partial academic requirement to obtain the degree of Magister Komputer in the Faculty of Artificial Intelligence and Data Sciences at Universitas Pelita Harapan to the following student:

Name : Your Name

Student Number: 01679yynnnn

Study Program : Informatics

Concentration : Your Concentration

which also included an examination on the thesis, entitled “**Thesis Title**” conducted by the following examiners:

Name of Examiners	Status	Signature
1. Name of Examiner, Bsc. M. Sc., Ph.D.	Head of Examiners	_____
2. Name of Supervisor , Bsc., M. Sc., Ph.D.	Thesis Supervisor	_____
3. Name of Examiner, Bsc., M. Sc., Ph.D.	Committee Member	_____

ABSTRACT

Student Name (NIM)

THESIS TITLE

(xiii + 17 pages; 2 images; 3 tables; 1 appendix)

The first part of the abstract should briefly explain the research problem and its context. It introduces the background of the study, highlights the gap or limitation in existing approaches, and clearly states why the problem is important to investigate. This paragraph should be concise and focused, allowing readers to quickly understand the motivation and objectives of the research without excessive technical detail.

The second part of the abstract describes the methodology used to address the research problem. It outlines the overall research approach, including data sources, experimental design, analytical methods, or system development processes. The explanation should emphasize how the methodology is suitable for solving the identified problem and should be written in a way that readers from a broad academic background can understand.

The final part of the abstract summarizes the main findings and contributions of the research. This paragraph should state the key results, explain their significance, and indicate how they address the original research problem. It may also briefly mention the implications or potential applications of the findings, providing a clear conclusion to the abstract.

Maximum 350 words

Keywords : Keyword 1, Keyword 2, Keyword 3, Keyword 4, Keyword 5

References : 62 (2000–2025)

ABSTRAK

Nama Mahasiswa (NIM)

JUDUL TESIS

(xiii + 17 halaman; 2 gambar; 3 tabel; 1 lampiran)

Bagian pertama abstrak menjelaskan secara singkat permasalahan penelitian dan konteksnya. Paragraf ini memperkenalkan latar belakang penelitian, menyoroti kesenjangan atau keterbatasan pada pendekatan yang telah ada, serta menjelaskan alasan pentingnya permasalahan tersebut untuk diteliti. Penjelasan disusun secara ringkas dan fokus agar pembaca dapat dengan cepat memahami motivasi dan tujuan penelitian tanpa uraian teknis yang berlebihan.

Bagian kedua abstrak menguraikan metodologi yang digunakan untuk menjawab permasalahan penelitian. Paragraf ini menjelaskan pendekatan penelitian secara umum, termasuk sumber data, rancangan eksperimen, metode analisis, atau proses pengembangan sistem. Penjelasan difokuskan pada kesesuaian metodologi dalam menyelesaikan permasalahan yang diidentifikasi dan ditulis agar dapat dipahami oleh pembaca dari berbagai latar belakang akademik.

Bagian terakhir abstrak merangkum temuan utama dan kontribusi penelitian. Paragraf ini menyajikan hasil kunci penelitian, menjelaskan signifikansinya, serta menunjukkan bagaimana hasil tersebut menjawab permasalahan penelitian. Selain itu, dapat disampaikan secara singkat implikasi atau potensi penerapan hasil penelitian sebagai penutup abstrak.

Maksimum 350 kata

Kata Kunci : Kata Kunci 1, Kata Kunci 2, Kata Kunci 3, Kata Kunci 4, Kata Kunci 5

Referensi : 62 (2000–2025)

ACKNOWLEDGMENTS

The acknowledgements section of a Master's thesis may be prepared by considering the following points:

- Begin by expressing gratitude to God or a higher power, in accordance with the author's beliefs, for the opportunity, strength, and guidance provided throughout the completion of the thesis.
- Acknowledge the primary supervisor and co-supervisor for their academic guidance, constructive feedback, and continuous support during the research and writing process.
- Express appreciation to the head of the study program, thesis examiners, and faculty members for their academic contributions and support throughout the Master's program.
- Thank the institution, laboratory, research group, or funding bodies that provided facilities, data access, or financial support necessary for conducting the research.
- Recognize fellow students, colleagues, or research collaborators for insightful discussions, cooperation, and academic encouragement.
- Conclude by expressing sincere gratitude to family members and close companions for their moral support, patience, and motivation during the period of study.

Jakarta, Date Month, Year

Your Name

01679yynnnn

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LIST OF ABBREVIATIONS

CVS	Computer Vision Syndrome
EAR	Eye Aspect Ratio
BV	Blurred vision
DV	Double vision
ES	Eye strain/fatigue
RF	Difficulty in refocusing the eyes
VD	Vision diminution
UO	Unclear objects post-screen use
ND	Near-vision discomfort/difficulty
SL	Increased sensitivity to light
GH	Glare/seeing halos
DRY	Dry eyes
RE	Red eyes
EI	Eye irritation/discomfort
IR	Itching/eye rubbing
WE	Watery eye
BS	Burning/stinging sensation

CHAPTER I

INTRODUCTION

1.1 Background

The background presents the research context, the purpose of conducting the study, and the factors that motivate the research. This section describes the conditions under which the research topic is carried out. The background includes preliminary studies or various relevant and recent (*recent*) core theories that are integrated to narrow down into a unique problem, which is then formulated as a research problem statement.

Typically, this section begins by explaining the gap, both theoretically and practically, between expectations and actual conditions. Each paragraph begins with a first-line indentation of one tab (1.5 cm) from the left margin. No additional spacing between paragraphs is required.

To cite references, use the IEEE referencing system for example [1].

1.2 Problem Formulation

In this subsection, the problems to be addressed are formulated clearly, precisely, and in a focused manner. This section contains descriptions or statements of the main topics that will be explored in this research. Definitions, assumptions, and the scope of the research/study may also be explained in this section.

1. First research question?
2. Second research question?

3. Third research question?

1.3 Problem Limitation

To keep the research focused and manageable at the Master's level, this thesis is conducted within the following limitations:

- The study focuses on a single system or case environment, which is used as a representative example rather than covering multiple large-scale or heterogeneous systems.
- The evaluation is performed under controlled experimental conditions, and real-world operational constraints such as unpredictable failures or external disturbances are not fully addressed.
- The proposed approach emphasizes functional adaptability and efficiency, while aspects such as security, legal compliance, and ethical considerations are outside the scope of this work.
- Performance analysis is limited to selected metrics, such as efficiency and system behavior, without an exhaustive comparison against all possible alternative methods.
- The implementation relies on available tools and platforms, which may influence the generalizability of the results to other technologies or infrastructures.

1.4 Research Objectives

This section briefly and clearly states the purpose of conducting the research/study and the targets or goals to be achieved, in accordance with the formulated research problems. The objectives of this research are:

1. The first objective corresponds to the first problem formulation.

2. The second objective corresponds to the second problem formulation.
3. The third objective corresponds to the third problem formulation.

1.5 Thesis Outline

This thesis is organized into five main sections to guide readers through the research process in a clear and systematic manner:

1. Introduction

This section introduces the research background, problem identification, research objectives, scope, and significance of the study. It provides the context and motivation for the research and explains why the chosen problem is important and relevant.

2. Literature Review

This section presents a review of relevant theories, concepts, and previous studies related to the research topic. It aims to build a theoretical foundation, identify research gaps, and position the current study within existing academic work.

3. Research Methodology

This section explains the research design, data collection methods, tools, and procedures used in the study. It guides readers through the steps taken to implement the proposed approach and describes how data are analyzed to address the research objectives.

4. Results and Discussion

This section presents the research findings and provides an analysis and interpretation of the results. The discussion links the findings to the research objectives and existing literature, highlighting contributions, limitations, and implications of the study.

5. Conclusion and Future Works

This section presents the conclusion of this work that include some important information which may have some values and the most contribution results.

The future works present the possibility of extension to enhance or to find further benefits.

CHAPTER II

LITERATURE REVIEW AND THEORETICAL FRAMEWORK

This chapter presents the literature review and theoretical framework. This chapter discusses theories, findings, and previous research materials obtained from various references that serve as the foundation for conducting the proposed research. Only materials that are relevant to the subject/topic/*state of the art* under investigation are presented.

2.1 Literature Review

The literature review is a concise yet comprehensive summary of all relevant materials found in various references. This section may present discussions or debates among existing studies. In addition, it may explain techniques, principles, tools, or technologies that will be and/or have been used in conducting the research.

The discussion is directed toward constructing an analytical framework or conceptual approach applied in the research. The materials presented should preferably be drawn from recent and original references, such as *journal papers*. It should be noted that at least 30% of the total references in the literature review must come from relevant scientific journal articles.

2.1.1 First Review Topic

Describe the first literature review topic relevant to the research. Include citations from the references used by applying the IEEE referencing system [1].

2.1.2 Second Review Topic

Describe the second literature review topic relevant to the research.

2.1.3 Third Review Topic

Describe the third literature review topic relevant to the research.

2.2 Theoretical Framework

The theoretical framework consists of theories selected from the literature review that underpin the research problem or study being conducted. This framework will also serve as a guideline for carrying out further research. The theoretical framework may be presented in the form of qualitative explanations or mathematical models/equations.

2.2.1 First Theory

Explain the first theory that forms the basis of this research.

2.2.2 Second Theory

Explain the second theory that forms the basis of this research. If necessary, include formulas or mathematical equations. An example of equation formatting is shown below:

$$E = mc^2 \tag{II.1}$$

where:

E = energy (Joule)

m = mass (kg)

c = speed of light (3×10^8 m/s)

Equations should be aligned with the left margin, consistent with the preceding text. Equation numbering should correspond to the chapter number in which the equation appears and be placed at the right margin (*right-aligned*).

2.2.3 Third Theory

Explain the third theory that forms the basis of this research.

2.3 Related Works

This section reviews relevant studies that have been conducted previously. Describe the strengths and weaknesses of each study, as well as the position of this research in comparison to prior works.

Table 2.1 presents a comparison of related studies.

Table 2.1: Comparison of Related Studies

Author	Method	Strengths	Weaknesses
Author A (2023)	Method X	Strength A	Weakness A
Author B (2022)	Method Y	Strength B	Weakness B
Author C (2021)	Method Z	Strength C	Weakness C

Source: Literature Review Results

CHAPTER III

METHODOLOGY

This chapter describes the research design, methods, or approaches used to address the research problems and achieve the research objectives, as well as the research stages presented clearly, concisely, and systematically.

3.1 Research Design

Describe the research design employed in this study. Explain whether the research is qualitative, quantitative, experimental, a literature study, or a development project (*project*).

3.2 Research Workflow

Figure 3.1 illustrates the research workflow to be carried out.

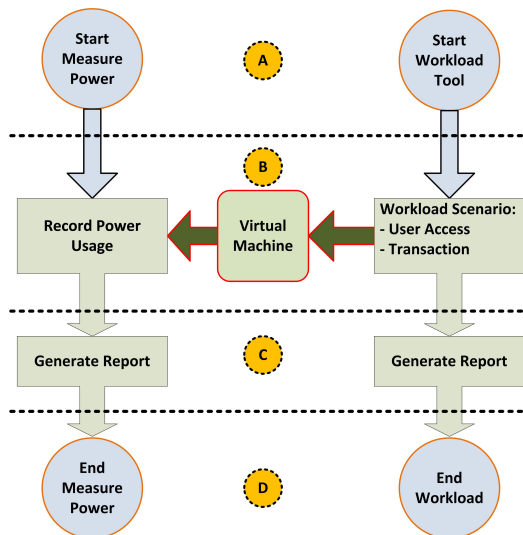


Figure 3.1: Research Workflow

3.3 Data Collection

Explain the data acquisition techniques or methods used in this research. Describe the research parameters and the data sources employed.

3.3.1 Primary Data

Describe the primary data used in this research.

3.3.2 Secondary Data

Describe the secondary data used in this research.

3.4 Methods Used

Describe the methods or approaches applied in this research. Explain how the research problems are addressed, whether through simulation, analytical models, prototypes, or actual data analysis.

3.4.1 First Method

Explain the first method used.

3.4.2 Second Method

Explain the second method used.

3.5 Data Analysis

Explain the data analysis techniques used in this research.

3.6 Evaluation

Explain the evaluation methods that will be used to measure the success of the research.

3.7 Research Activity Schedule

Table 3.1 presents the research activity schedule in the form of a *bar chart*.

Table 3.1: Research Activity Schedule

Activity	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Literature Study	•	•				
Data Collection		•	•			
System Design			•	•		
Implementation				•	•	
Testing					•	•
Thesis Writing	•	•	•	•	•	•

CHAPTER IV

RESULTS AND DISCUSSION

At the beginning of this chapter, an introduction should be provided to outline the activities carried out and the analytical approaches used to complete the research. Subsequently, the research objectives are discussed and analyzed in detail and in a systematic, step-by-step manner, using the methods described in the research methodology, until the research results are obtained.

4.1 Results of Data Collection

Explain the results of the data collection process that has been conducted. Present the data in the form of clear and easily understandable tables or graphs.

4.1.1 First Dataset

Table 4.1 presents the results of the first data collection.

Table 4.1: Results of the First Data Collection

No	Parameter	Value	Unit
1	Parameter A	100	Unit A
2	Parameter B	200	Unit B
3	Parameter C	300	Unit C

Source: Observation Results

4.1.2 Second Dataset

Explain the second dataset that has been collected.

4.2 Implementation

Explain the implementation of the methods used in this research.

4.2.1 First Implementation Stage

Explain the implementation of the first stage.

4.2.2 Second Implementation Stage

Explain the implementation of the second stage.

4.3 Testing Results

Explain the testing results that have been obtained.

4.3.1 Testing Scenario

Describe the testing scenarios used.

4.3.2 Testing Results

Figure 4.1 illustrates the testing results obtained.

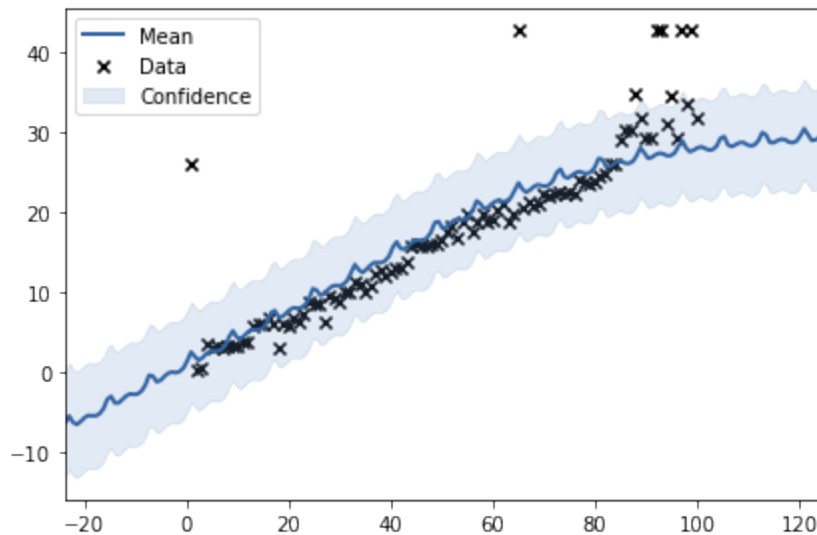


Figure 4.1: Testing Results

4.4 Discussion

This analysis and discussion are conducted for all objectives defined in the research objectives.

4.4.1 Analysis of the First Result

Explain the analysis of the first result. Compare it with previous studies and describe the findings obtained.

4.4.2 Analysis of the Second Result

Explain the analysis of the second result.

4.4.3 Analysis of the Third Result

Explain the analysis of the third result.

4.5 Evaluation

Explain the overall evaluation of the research results. Compare the outcomes with the targets established at the beginning of the study.

CHAPTER V

CONCLUSION AND RECOMMENDATIONS

5.1 Conclusion

This subsection presents the conclusions of the research or thesis. The conclusions must be drawn based on the research results, discussions, and findings presented in the previous chapters and must be aligned with the research or thesis objectives. Do not draw conclusions that are not supported by the discussion provided.

Based on the research results and discussions that have been conducted, the following conclusions can be drawn:

1. The first conclusion corresponds to the first research objective. Describe the main findings that address the first problem formulation.
2. The second conclusion corresponds to the second research objective. Describe the main findings that address the second problem formulation.
3. The third conclusion corresponds to the third research objective. Describe the main findings that address the third problem formulation.

5.2 Recommendations

This subsection presents recommendations proposed by the author. The recommendations should be formulated based on the discussions and conclusions that have been made. Avoid proposing recommendations that fall outside the scope of the discussion and conclusions.

REFERENCES

- [1] I. Abuallut, R. E. Ajeebi, A. Y. Bahari, M. A. Abudeyah, A. A. Alyamani, A. J. Zurayyir, A. H. Alharbi, A. A. Al Faqih, A. Z. Suwaydi, M. I. Alqasemi *et al.*, “Prevalence of computer vision syndrome among school-age children during the COVID-19 pandemic: a cross-sectional survey,” *Children*, vol. 9, no. 11, p. 1718, 2022.
- [2] N. Tuturoong, “Binking application: Early detection of computer vision syndrome,” *East Asian Journal of Multidisciplinary Research*, vol. 2, pp. 2203–2214, 2023.
- [3] American Optometric Association. Computer vision syndrome. [Online]. Available: <https://www.aoa.org/healthy-eyes/eye-and-vision-conditions/computer-vision-syndrome>

APPENDIX

1. Ethical Approval Letter.
2. Proceeding Publications.
3. Journal Submission evidence from the Publisher.
4. Graph, Picture or Code
5. etc.

CURRICULUM VITAE



AUTHOR FULL NAME was born in [Place of Birth] on [Day Month Year]. The author is the [X]th child of [Y] siblings, born to Mr. [Father's Name] and Mrs. [Mother's Name].

The author completed formal education at [Name of Elementary School] (graduated in [Year]), [Name of Junior High School] (graduated in [Year]), and [Name of Senior High School] (graduated in [Year]). The author then pursued higher education in the [Undergraduate Program Name] Study Program at [University Name] and graduated in [Year] with a [Bachelor's Degree].

After completing undergraduate studies, the author worked at [Institution/Company Name] as a [Position] for [N] years. In [Year], the author continued graduate studies in the [Master's Program Name] Study Program, Department of [Department Name], Faculty of [Faculty Name], Universitas Pelita Harapan, Jakarta.

During the master's program, the author was actively involved in [academic/organizational activities]. The author has also published research results in [journals/conferences, if any].

The author can be contacted via email at: [email address].



DECLARATION OF THE USE OF GENERATIVE AI

I am a student of Study Program of Informatics Master Program. Faculty of Artificial Intelligence and Data Sciences, Universitas Pelita Harapan,

Name : Your Name

Student Number : 01679yynnnn

I acknowledge the use of [insert AI system(s) and link] to [specific use of generative artificial intelligence].

The prompts used were:

1. list of prompts
2. list of prompts

The output from these prompts was used to [explain use].

The value that this AI tool offered to me during my assignment preparation included: [features]

Example statement:

Use of generative AI for improving tone and style of writing

I acknowledge the use of ChatGPT (<https://chat.openai.com/>) to proof-read my own work. On 4 January 2023 I pasted my entire essay (link to text here) into ChatGPT with the instruction to “Identify in this essay the typos and grammatical errors, sentences with passive voice, repeated words or sentences, and all unnecessary adverbs”. The output (link here) was then modified further to better represent my own writing.

The value that this AI tool offered to me during my assignment preparation included: [features]

I understand that if my statements above are proven to be incorrect, this thesis is considered to be a failure.

Jakarta, Date Month Year

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