#### **THESIS**

### ANALYSIS OF MENTAL HEALTH CLASSIFICATION IN FINAL-YEAR FEMALE UNIVERSITY STUDENTS COMPLETING THEIR THESIS USING THE SUPPORT VECTOR MACHINE ALGORITHM

Case Study: University of Darussalam Gontor, Ngawi, Indonesia



Anisa Kirani NIM. 42,2021.618013

DEPARTMENT OF INFORMATIC ENGINEERING
FACULTY OF SCIENCE AND TECHNOLOGY
UNIVERSITY OF DARUSSALAM GONTOR
PONOROGO

2025

#### **AUTHORIZATION**

ANALYSIS OF MENTAL HEALTH CLASSIFICATION IN FINAL-YEAR FEMALE UNIVERSITY STUDENTS COMPLETING THEIR THESIS USING THE SUPPORT VECTOR MACHINE ALGORITH CASE STUDY: UNIVERSITY OF DARUSSALAM GONTOR, NGAWI, INDONESIA

#### THESIS

Submitted to fulfill some of the requirements to obtain a Bachelor of Computer Science degree

Compiled by:

Anisa Kirani

NIM: 422021618013

This thesis has been tested and passed on

February 8, 2025

It has been checked and approved by:

Widya Kurmawan, M.Kom NY: 210870

Supervisor II

Aziz Musthafa, S.Kom., M.T.

NIY: 150487

Examiner

Virgantara Putra, S.Kom., M.T.

NIY: 160568

Known,

Head of Informatics Engineering

Dihin Muriyatmoko, S.ST, M.T

NIY: 150489

#### STATEMENT OF ORIGINALITY

I declare truthfully that to the best of my knowledge, in this thesis there is no scientific work that another person has ever submitted to obtain an academic degree at a university. No work or opinion has ever been written or published by another person, except which are cited in writing in this manuscript and mentioned in the Bibliography.

Suppose it turns out that this thesis manuscript can be proven to contain elements of plagiarism. I am willing to have this thesis disqualified and the academic degree I have obtained (bachelor) canceled, and processed by laws and regulations (UU No. 20 of 2023, Article 25 paragraph 2 and Article 70).

Ponorogo, February 8, 2025

Merthal TAMEL EC9AJX812576904
Annsa Kirani

NIM: 422021618013

## UNIDA GONTOR

DIVIVERDITAD DIAGODDALIAM GOTVIOT

#### **ACKNOWLEDGMENTS**

Alhamdulillah, all praise and gratitude to Allah SWT, the Lord of the universe, who has granted us the opportunity to pursue knowledge. Blessings and peace be upon our Prophet Muhammad SAW, the messenger of Allah, who brought glad tidings and guided us to the straight and clear path that we now follow. The researcher also extends profound gratitude to all lecturers who have guided and supported the researcher throughout the process of writing this thesis.

The writer acknowledges that this research is far from perfect; therefore, any constructive criticism and suggestions will be gladly welcomed for further improvement and development of this study. With humility, the writer realizes that completing this thesis would not have been possible without the support, guidance, and encouragement of many parties. On this occasion, the researcher would like to express heartfelt thanks, especially to:

- Al-Ustadz Prof. Dr. Hamid Fahmy Zarkasyi, M.A.Ed., M.Phil., as the Rector along with all his staff, as well as all the lecturers of Darussalam Gontor University who have educated the researcher.
- 2. Al-Ustadz Haris Setyaningrum, S.Si., M.Sc., as the Dean of the Faculty of Science and Technology, along with his staff.
- 3. Al-Ustadz Dihin Muriyatmoko, S.ST., M.T., As the Head of the Informatics Engineering Study Program, along with the lecturers and staff, who have motivated and provided guidance to the researcher in completing this thesis research.
- 4. Al-Ustadz Widya Kurniawan, M.Kom. As the primary advisor who has provided numerous suggestions and advice for this research. Thank you for dedicating your time and effort to guide, assist, and direct the researcher, enabling the completion of this study.
- 5. Al-Ustadz Aziz Mustafa, M.Kom. As the second advisor who has patiently guided and enlightened the researcher throughout this study.
- 6. Al-Ustadzah Sriati, M.Psi As a psychology expert who has dedicated time and assisted the researcher in formulating questions and validating data for this study.

- 7. The researcher's family, especially the Mother and Father, have continuously prayed every night for the researcher's success in completing this study.
- 8. Best Friend Ever, Ufi, Khilya, Dinmaw, Salamah, the Pubdok Room GBB 115, and the Romuses Group GB 201 who have always motivated, encouraged, and supported each other.
- 9. The friends from the Informatics Engineering Study Program, especially the 2021 batch, who have supported and assisted each other in completing this research. We faced everything together, even when it felt challenging.
- 10. All parties who have assisted the researcher in completing this thesis. May Allah SWT grant the best rewards for all the kindness and support that have been provided.

On this occasion, the researcher would also like to apologize and acknowledge that this study still has many shortcomings. In closing, the researcher sincerely hopes that this thesis will be beneficial and that the knowledge gained will bring blessings to all parties involved. Ameen.

Mantingan, February 8, 2025

Anisa Kirani

# UNIVERSITAS DARISSALAM GONTOR