

## APPROVAL PAGE

Approval of the School of Computing of Telkom University

I certify that this thesis satisfies all the requirements as a thesis for the degree of Master Informatics.

Date \_\_ February 2024

---

(Setyorini, S.T., M.T.)

Head of Master Informatics

This is to certify that we have read this thesis and that in our opinion it is fully adequate, in scope and quality, as a thesis for the degree of Master of Informatics.

Date 15 February 2024





---

(Prof. ARI MOESRIAMI BARMAWI, Ir., M.Sc., Ph.D.)

Examining Committee Members.

Date 15 February 2024

(Dr. Farah Afianti) (Chairperson of the jury) : 

(Dr. Dody Qori Utama) (jury's member) : 

(Hilal Hudan Nuha, Ph.D) (jury's member) : 