

PREFACE

Assalamu'alaikum Warahmatullahi Wabarakatuh,

All praise is due to Allah SWT, who has granted the blessings of faith, intellect, health, and abundant grace, enabling the author to complete this thesis titled "**IMPLEMENTATION OF HYPERPARAMETER TUNING RANDOM FOREST ALGORITHM IN MACHINE LEARNING FOR SDN SECURITY: AN INNOVATIVE EXPLORATION OF DDOS ATTACK DETECTION**". This thesis is submitted to fulfill the requirements for the completion of the Master of Electrical Engineering program at the Graduate School, Telkom University.

The author acknowledges that this thesis is far from perfect and may contain shortcomings due to the author's limitations. Therefore, any constructive feedback and suggestions for improvement are highly appreciated. With humility, the author hopes this thesis will be beneficial to the readers and the field of education in the future.

Wassalamu'alaikum Warahmatullahi Wabarakatuh

Bandung, September 11th 2024

Hijrah Nisya