## **ACKNOWLEDGEMENT**

I would like to express my heartfelt gratitude to all those who have supported and contributed to the completion of this thesis. Without their assistance, this work would not have been possible. The author would like to express gratitudes to:

- 1. Allah SWT because with all His mercy and grace who gave blessings and strength so that the author was able to complete this final assignment.
- 2. My beloved parents who continuously conveyed their prayers, wholehearted love and enthusiasm for the smoothness and success of the author in completing this master's thesis. To my siblings Ach. Dani and Adelya Zola who also provide support by always entertaining the writer.
- 3. Mr. Suryo Adhi Wibowo, Ph.D. as supervisor I for his unwavering guidance, expertise, and mentorship throughout this research journey. His invaluable feedback, encouragement, and support have been instrumental in shaping the direction and quality of this thesis.
- 4. Mr. Unang Sunarya, Ph.D. as supervisor II who participated in providing facilities, knowledge and direction as well as encouragement so that I was able to complete this master's thesis.
- 5. All of my lecturers, from the beginning of the lecture, handed down their expertise and gave inspiration, as did all of the academic staff at Telkom University who assisted the author during my stay here.
- 6. Researchers and authors whose work has been referenced in this master's thesis. I would like to extend my appreciation because their contributions to the field of stock forecasting, deep learning, and related areas have been crucial in informing and guiding my research.
- 7. The Center of Excellence AI for Learning and Optimization (CoE AILO) also assisted with the completion of this final project. This place provided a great experience and friends who were very helpful in finishing my master's thesis, especially Wahyu, Amel, Ami, Indra and Felix. In addition to Izzah, Wesli, and

Kanz, who also supplied insight about challenges that occasionally emerge in this master's thesis.

8. All parties who the author is unable to name individually, thank you for your ongoing support.