

PREFACE

In the name of Allah, the Most Gracious, the Most Merciful. Praise be to Allah, Lord of the Worlds. All praise and gratitude are sincerely extended to Allah SWT for His endless blessings, guidance, and mercy, which have enabled the author to successfully complete this Final Project. This Final Project, with the title "Integration of Student Competition Dashboard with Artificial Intelligence (AI) Using the Waterfall Method at the Faculty of Industrial Engineering, Telkom University," marks the culmination of the author's academic journey in the Information Systems Study Program, Faculty of Industrial Engineering, Telkom University. First and foremost, the author would like to express deep appreciation and sincere thanks to :

1. My academic supervisors, Prof. Dr. Irfan Darmawan, S.T., M.T. and Dr. Oktariani Nurul Pratiwi, S.Kom., M.T., who have provided invaluable guidance, mentorship, criticism, and suggestions with great patience and dedication. Without their guidance, this research would not have been able to materialize well.
2. Luthfi Ramadani, S.T., M.T., Ph.D., as the academic advisor who has provided motivation, advice, and academic support throughout the course of study. His guidance and attention have been very meaningful in the author's academic journey.
3. My beloved mother, who has been the greatest source of strength in the writer's life. Unceasing prayers, limitless moral support, invaluable sacrifices, and genuine love have been the main motivations for the author to complete this education. May this achievement bring pride and slightly repay the services that have been given.
4. I would like to express my gratitude to my colleague, Muhammad Hanif Al Hadi, for his dedication, cooperation, and sincere support throughout the preparation of this final project. His contributions and discussions, from ideas, thoughts, and differing arguments and perspectives to his active involvement in every stage of the project, were instrumental in the success of this research. Working with him has been a valuable experience,

and his collaborative spirit is commendable. May this collaboration serve as a solid foundation for future mutual success, both academically and professionally.

5. The Faculty of Industrial Engineering, Telkom University, especially the faculty leaders and student affairs staff who have granted permission and support in the implementation of this research, as well as provided the necessary data and information.
6. All parties that the author cannot mention one by one who have provided assistance, support, and contributions both directly and indirectly in the completion of this Final Project.
7. Last but not least, I wanna thank me, I wanna thank me for believing in me, I wanna thank me for doing all this hard work, I wanna thank me for having no days off, I wanna thank me for, for never quitting, I wanna thank me for always being a giver, And tryna give more than I receive, I wanna thank me for tryna do more right than wrong, I wanna thank me for just being me at all times.

The author realizes that this Final Project is still far from perfection. Therefore, the author hopes for constructive criticism and suggestions for future improvements. May this Final Project provide benefits for the development of knowledge, especially in the field of information systems and artificial intelligence-based dashboard technology. At the end of the word, may Allah SWT always bestow grace and guidance upon us all, and may the knowledge gained be beneficial for oneself, family, society, and the nation.