PREFACE

First and foremost, we express our deepest gratitude to God Almighty for His endless blessings and guidance, which have enabled us to complete this thesis titled "Grading Quality of Tuna Loin Using Computer Vision and Deep Learning" successfully and on time. This thesis is prepared as a requirement for obtaining the bachelor's degree and completing our studies in the S1 Telecommunication Engineering program at Telkom University, Bandung.

The motivation behind choosing this topic stems from the increasing demand for efficient, accurate, and objective quality assessment methods in the fisheries industry. Tuna is a high-value commodity, and its quality grading traditionally relies on human inspection, which can be subjective and inconsistent. By utilizing computer vision and deep learning, we aim to develop a system that can assist in automating and standardizing the grading process of tuna loin based on visual features such as color and texture. We hope this research can contribute meaningfully to the intersection of artificial intelligence and food quality control, particularly in the fisheries sector.

We acknowledge that this research has its limitations and that our knowledge and experience in this field are still evolving. Therefore, we welcome all constructive suggestions and feedback to improve this work. Lastly, we would like to extend our sincere appreciation to everyone who has supported and guided us throughout the completion of this thesis, and we apologize for any shortcomings or mistakes. We hope this research will be beneficial to readers, the academic community, and practitioners in the fields of computer vision, deep learning, and fisheries technology.

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