**SINCERE THANKS**

I would like to sincerely thank the Faculty of Information Technology, Dai Duy Tan University for creating favorable conditions for me to carry out this topic. I would like to sincerely thank Mr. Nguyen Minh Nhat, who has guided and helped me throughout the time of carrying out the topic. During the process of carrying out the topic, he has enthusiastically guided and discussed with me to help me solve problems to complete the topic. I would also like to express my deep gratitude to the teachers in the faculty who have enthusiastically taught and equipped me with extremely valuable knowledge in the past school years. My father, mother, brothers and sisters have cared for, looked after and encouraged me. My friends have supported and helped us in difficult times as well as during the time of studying and researching. Although I have tried to complete the thesis within the allowed scope and ability, there will certainly be shortcomings, I respectfully ask for sympathy and guidance from teachers and friends.

Da Nang, April 18, 2025.

Performed by student

Le Thai Trung