

DEDICATION

All praise to Allah SWT for giving me the blessing, strength, chance, and endurance to complete this study. This thesis is completed with the endless support of my family. I dedicate this thesis for my beloved parents, Amir Syarifudin and Azizah Mariana, who give me boundless love, support, and encouragement throughout this academic journey. This accomplishment is a tribute to the values you instilled in me to reach this milestone.

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Computer Science.

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