

## DEDICATION

This thesis is compiled with the support of my family. I praise GOD and express sincere thanks to all who have helped, guided, and supported this work. I dedicate this work to my beloved parents, **Neotico Dias da Gama Ximenes** and **Maria da Assunção**, whose unwavering love, sacrifices, and prayers have been my greatest strength throughout this journey.

Finally, this thesis is dedicated to all informatics students around the world. May this research contribute meaningfully to the advancement of Computer Science.