DEDICATION

This thesis is compiled with the support of my family. I praise god and thanks to all who have helped, directed, and supported this work.

I dedicate this thesis to my beloved parents, who have always been my source of strength, endless support, and unconditional love. Your sacrifices, prayers, and encouragement have guided me through every challenge, and without you, this journey would not have been possible.

I also dedicate this work to all Informatics students who are passionate about research and technology. May this thesis serve as an inspiration and motivation to continue exploring the world of data science, machine learning, and artificial intelligence. Keep striving for knowledge, innovation, and excellence.

Finally this thesis is dedicated to all informatics students in the world. I hope that this research may provide valuable contribution in Computer Science.