

DEEP LEARNING

FOR REAL TIME APPLICATIONS

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PREFACE

In recent years, the field of artificial intelligence has witnessed an unprecedented revolution, primarily driven by the remarkable advancements in deep learning techniques. These powerful algorithms have proven their mettle across various domains, from computer vision and natural language processing to robotics and healthcare. In this book, "*Deep Learning for Real-Time Applications*" we delve into the realm of deep learning's applications in solving critical real-time challenges, focusing on groundbreaking techniques for detecting and understanding complex phenomena.

This book addresses Detection of Lung Cancer, Detect Chronic Obstructive Pulmonary Disease, Detection of Lip Movement, Vision-Based Lip Movement Detection, and Multiple Pose Lip Reading Framework Using Deep Learning Approaches.

This book aims to inspire researchers, practitioners, and enthusiasts alike to embrace the power of deep learning and propel real-time applications to new heights. As the world continues to witness the rapid evolution of artificial intelligence, we hope this book will serve as a guiding light for all those dedicated to making a positive impact on society through the realm of deep learning.

 Author

ACKNOWLEDGEMENT

Writing a book is a collaborative effort that involves the support and contributions of many individuals. I would like to express my sincere gratitude to all those who have been instrumental in the creation of this book, "*Deep Learning for Real-Time Applications*."

I extend our deepest appreciation to our academic advisors and mentors, whose guidance and expertise have shaped my understanding of deep learning and its applications.

I am grateful to the researchers and practitioners in the field of deep learning who have tirelessly worked to advance the state-of-the-art. Their ground breaking research and open-source contributions have been instrumental in shaping the content of this book.

I would also like to acknowledge the reviewers and editors who provided valuable feedback and constructive criticism, helping us refine and improve the quality of this manuscript. Furthermore, I would like to express our gratitude to the publishers and the entire production team involved in bringing this book to life. Their dedication, professionalism, and commitment to excellence have been commendable.

To everyone who has contributed directly or indirectly to this book, we extend our heartfelt appreciation. Your support, encouragement, and collaboration have made this endeavour possible.

Thank you for being a part of our journey.

 *T. Swapna*

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