HUMAN DISEASE PREDICTION Using Artificial Intelligence

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PREFACE

Welcome to "Human Disease Prediction using Artificial Intelligence." This textbook aims to provide a comprehensive and accessible introduction to the fascinating field of Machine Learning (ML) and Transfer Learning. With the rapid advancements in technology and the increasing integration ML with various domains, it has become essential for students, researchers, and practitioners to understand the Symptoms related to disease and predict at early stages.

This book is designed to cater to a wide range of readers, including undergraduate and graduate students, professionals from diverse fields seeking to understand various features that effect health sector. The primary goal is to present a balanced blend of theoretical concepts, practical techniques, and real-world examples to foster a deeper understanding of Transfer learning.

Transfer Learning: Transfer learning is a technique in machine learning where a model trained on one task is used as the starting point for a model on a second task. This can be useful when the second task is similar to the first task, or when there is limited data available for the second task. By using the learned features from the first task as a starting point, the model can learn more quickly and effectively on the second task. This can also help to prevent over fitting, as the model will have already learned general features that are likely to be useful in the second task.

Throughout this book, we emphasize a practical and hands-on approach, providing examples, case studies, and exercises to reinforce the understanding of Machine learning and Transfer Learning. It is our aim to strike a balance between theory and practice, allowing readers to grasp the fundamental concepts while gaining practical insights into ML applications across diverse domains.

While creating this textbook, we have been mindful of the importance of avoiding plagiarism. All the content within this book is original, and we have taken great care to ensure that sources are properly cited. We encourage readers to explore the references and further readings provided at the end of each chapter to delve deeper into specific topics and gain a more comprehensive understanding.

We would like to express our gratitude to the researchers, practitioners, and educators who have contributed to the development of the field of Transfer Learning and made it possible to compile this textbook. Their dedication and innovative contributions have paved the way for the advancements we witness today. We also extend our appreciation to the reviewers who provided valuable feedback and helped shape this book.

We hope that "Human Disease Prediction using Machine Learning" will serve as a valuable resource in your journey to explore and understand the captivating realm of Transfer Learning. Our aspiration is that this book will inspire curiosity, foster critical thinking, and empower readers to contribute to the responsible development and application of AI.

Happy reading!

Author

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