Contents

About the Author x

Foreword xi

Preface xiii

Introduction xv

1 BECOMING THE ORCHESTRATOR 1

From Surveys to Synapses: A Journey to AI 2

The Key That Unlocked It All: Language 3

The Shift 5

Becoming an Orchestrator 6

Elevating Performance: Bridging the Skills Gap 7

A Mindset Shift 8

Exercise: Enhancing Your Questioning Skills 10

Conclusion 10

2 ASK AND IT IS GIVEN: A PRACTICAL GUIDE TO PROMPTING 13

The Rise of Generative AI 14

Generative AI Applications for Knowledge Workers 15

How I Use AI on a Weekly Basis 19

Prompting: The Art of Conversing with AI 21

An Advanced Prompting Toolkit 23

Improving Your Prompts 25

Choosing the Right Tool 28

Key Considerations for Choosing Your Tool 29

Conclusion 30

3 WHAT IS AI AND HOW DOES IT LEARN? 31
Defining AI 31
AI Timeline: Key Milestones 35
Everyday AI 36
Understanding the AI Effect 38
Building AI Systems 40
Machine Learning 42
How Do Neural Networks Learn? 46
Key Terms: Building Your AI Vocabulary 49
Conclusion 51

4 AI APPLICATIONS 53
Factors Influencing AI Applications 53
AI Capabilities and Applications 55
AI's Impact on Roles 56
AI in Marketing 58
AI in Sales 60
AI in Operations 62
AI in Finance 64
AI in Product Development 66
Finding the Right AI Applications 67
Conclusion 69

5 AI ORCHESTRATION AT SCALE 71
The Role of the AI Orchestrator 71
Becoming the Observer 74
Personal AI Orchestration at Scale 77
Task Automation 80
AI Agents 83
From Models to Mature Systems: The Life Cycle of Traditional Machine Learning 89

AI Orchestration for the Enterprise 92
Level Setting 95
Quantify and Assess 97
AI Guidelines and Policies 99
Training 103
Continual Empowerment 104
Measuring Impact 106
Conclusion: From Personal Practice to Organizational Strategy 111

6 ETHICAL MACHINES 113
What Is Ethics? 114
Levels of Risk 116
Narrow AI's Limitations and Challenges 119
AI Alignment 130
Expanding AI-Related Laws 134
Intellectual Property: Creativity and Controversy in the AI Era 138
Safety and Security 141
Other Considerations 146
Conclusion: Orchestrating the Future of AI 149

7 A CHANGING TIDE: AI'S IMPACT ON SOCIETY 153
Digital Basics 155
Exercise: Reflecting on the Evolution of Work 157
A Constant of Change 159
How AI Is "Actually" Changing Work 161
Making the Transition 164
Augmentation 168
Conclusion 171

8 SHAPING THE FUTURE AS AN ORCHESTRATOR 173

Lessons from History: Jevons Paradox and the Luddites 174

An Abundant Future 176

Empowering Everyone to Shape the Future 181

What Comes Next? 182

Navigating the Road Ahead 186

Embrace Your Role as the Orchestrator 189

Orchestrating Your Future 191

BIBLIOGRAPHY 193

INDEX 195