

BRIEF CONTENTS

Foreword	xix
Acknowledgments	xxiii
Introduction	xxv
Chapter 1: Getting Started	1
Chapter 2: Using Python	11
Chapter 3: Using NumPy	29
Chapter 4: Working with Data	51
Chapter 5: Building Datasets	83
Chapter 6: Classical Machine Learning	107
Chapter 7: Experiments with Classical Models	129
Chapter 8: Introduction to Neural Networks	169
Chapter 9: Training a Neural Network	189
Chapter 10: Experiments with Neural Networks	221
Chapter 11: Evaluating Models	251
Chapter 12: Introduction to Convolutional Neural Networks	283
Chapter 13: Experiments with Keras and MNIST	309
Chapter 14: Experiments with CIFAR-10	343
Chapter 15: A Case Study: Classifying Audio Samples	377
Chapter 16: Going Further	411
Index	417