Apply Python In Making Amazing Computer Vision With Guides

The Python Essential Part: Apply Python In Making Amazing Computer Vision With Guides by Kevin Meininger

★★★★☆ 4.3 out of 5

Language	: English
File size	: 607 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 42 pages
Lending	: Enabled

FREE DOWNLOAD E-BOOK

Chapter 1: to Computer Vision and Python

In this chapter, you'll learn the fundamentals of computer vision and how Python can empower you to build powerful image analysis applications. We'll cover:

- The basics of computer vision and its applications

- An overview of Python libraries for computer vision

- Setting up your Python environment for computer vision

Chapter 2: Image Processing and Manipulation

Master the art of image processing with Python. In this chapter, we'll explore:

- Loading, displaying, and saving images

- Image transformations: resizing, cropping, and rotating

- Color space conversions and histogram equalization

- Filtering and blurring techniques

Chapter 3: Object Detection and Recognition

Unlock the power of object detection with Python. In this chapter, you'll discover:

- Object detection algorithms and their implementation

- Using pre-trained models for object classification

- Real-time object tracking and counting

- Building custom object detectors

Chapter 4: Facial Recognition and Analysis

Dive into the realm of facial recognition with Python. This chapter covers:

- Face detection and landmark localization

- Facial attribute analysis: age, gender, and emotion detection

- Face recognition techniques and their implementation

- Building a face recognition system

Chapter 5: Advanced Computer Vision Techniques

Expand your computer vision skills with advanced techniques. In this chapter, you'll learn:

- Image segmentation and object extraction

- Optical character recognition (OCR)

- 3D computer vision and point cloud processing

- Computer vision applications in various industries

Chapter 6: Best Practices and Project Implementation

Put your knowledge into practice. This chapter guides you through:

- Best practices for developing computer vision applications

- Tips for optimizing performance and efficiency

- Real-world project ideas and implementation

- Troubleshooting and debugging techniques

By the end of this book, you'll be equipped with the skills and knowledge to build amazing computer vision applications with Python. You'll have a deep understanding of image processing, object detection, facial recognition, and advanced techniques. Whether you're a beginner or an experienced developer, this guide will empower you to unlock the full potential of computer vision in your projects.

Free Download Your Copy Today!

The Python Essential Part: Apply Python In Making Amazing Computer Vision With Guides by Kevin Meininger
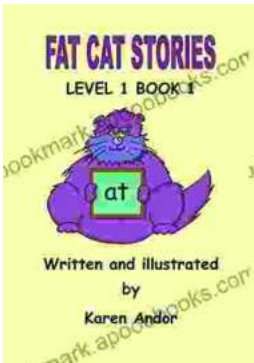
★★★★☆ 4.3 out of 5

Language	: English
File size	: 607 KB
Text-to-Speech	: Enabled

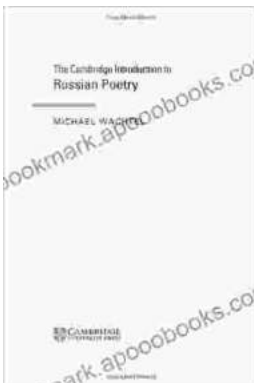|	
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 42 pages
Lending	: Enabled

Fat Cat Stories: Level At Word Family - A Purrfect Start to Early Reading Adventures!

Introducing the 'At' Word Family with a Dash of Feline Charm Prepare your little ones for a paw-some reading experience with Fat Cat Stories: Level At...

Unveiling the Treasures of Russian Poetry: The Cambridge Introduction to Russian Poetry

Immerse yourself in the enchanting realm of Russian poetry, a literary treasure that has captivated hearts and minds for centuries. "The Cambridge to Russian...