Computer Vision-AI on Raspberry Pi

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Hardware Architecture

- Raspberry Pi 4 Model B
  - 8GB RAM
- Raspberry Pi Camera
- Pi Foundation Display Touchscreen
- SmartiPi Touch 2

Software Architecture

- Raspberry Pi OS
- Python 3
- Bash
- PyQt5/Qt Designer
- Figma
- Azure Custom Vision
- Docker

Raspberry Pi 4: Single board computer that will contain the entire program

PyQt5/Qt Designer – Python library and tool used to develop the main GUI

Raspberry Pi Camera: Used to capture pictures for object detection on Raspberry Pi

Azure Custom Vision - Takes pictures from camera to train object recognition AI model

Raspberry Pi Computer Vision Programming

Barrett Williams,ChatGPT

Raspberry Pi Computer Vision Programming:

This book delves into Raspberry Pi Computer Vision Programming. Raspberry Pi Computer Vision Programming is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Raspberry Pi Computer Vision Programming, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Raspberry Pi Computer Vision Programming
   - Chapter 2: Essential Elements of Raspberry Pi Computer Vision Programming
   - Chapter 3: Raspberry Pi Computer Vision Programming in Everyday Life
   - Chapter 4: Raspberry Pi Computer Vision Programming in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Raspberry Pi Computer Vision Programming. The first chapter will explore what Raspberry Pi Computer Vision Programming is, why Raspberry Pi Computer Vision Programming is vital, and how to effectively learn about Raspberry Pi Computer Vision Programming.

3. In chapter 2, the author will delve into the foundational concepts of Raspberry Pi Computer Vision Programming. This chapter will elucidate the essential principles that must be understood to grasp Raspberry Pi Computer Vision Programming in its entirety.

4. In chapter 3, the author will examine the practical applications of Raspberry Pi Computer Vision Programming in daily life. This chapter will showcase real-world examples of how Raspberry Pi Computer Vision Programming can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Raspberry Pi Computer Vision Programming in specific contexts. This chapter will explore how Raspberry Pi Computer Vision Programming is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Raspberry Pi Computer Vision Programming. The final chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Raspberry Pi Computer Vision Programming.

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Raspberry Pi Computer Vision Programming Introduction

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