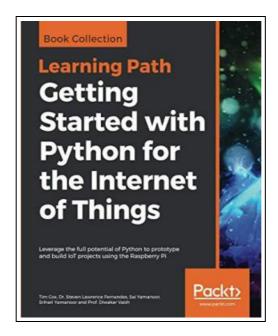
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Packt Publishing Limited, United Kingdom, 2019. Paperback. Condition: New. Language: English. Brand new Book. Build clever, collaborative, and powerful automation systems with the Raspberry Pi and Python.Key FeaturesCreate your own Pi-Rover or Pi-Hexipod robotsDevelop practical applications in Python using Raspberry PiBuild your own Jarvis, a highly advanced computerized AlBook DescriptionThis Learning Path takes you on a journey in the world of robotics and teaches you all that you can achieve with Raspberry Pi and Python.It teaches you to harness the power of Python with the Raspberry Pi 3 and the Raspberry Pi zero to build superlative automation systems that can transform your business. You will learn to create text classifiers, predict sentiment in words, and develop applications with the Tkinter library. Things will get more interesting when you build a human face detection and recognition system and a home automation system in Python, where different appliances are controlled using the Raspberry Pi. With such diverse robotics projects, you'll grasp the basics of robotics and its functions, and understand the integration of robotics with the IoT environment.By the end of this Learning Path, you will have covered everything from configuring a robotic controller, to creating a self-driven robotic vehicle using Python.Raspberry Pi 3 Cookbook for Python Programmers - Third Edition by Tim Cox, Dr. Steven Lawrence FernandesPython Programming with Raspberry Pi by Sai Yamanoor, Srihari YamanoorPython Robotics Projects by Prof. Diwakar VaishWhat you will learnBuild text classifiers and predict sentiment in words with the Tkinter libraryDevelop human face detection and recognition systemsCreate a neural network module for optical character recognitionBuild a mobile robot using the Raspberry Pi as a controllerUnderstand how to interface sensors, actuators, and LED displays workApply machine learning techniques to your modelsInterface your robots with BluetoothWho this book is forThis Learning Path is specially design

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