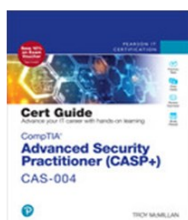
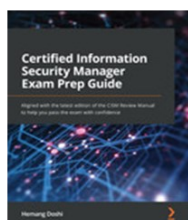
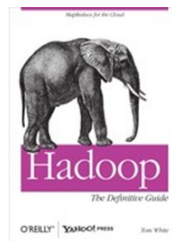
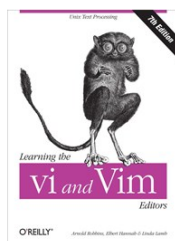
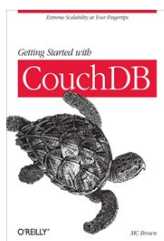


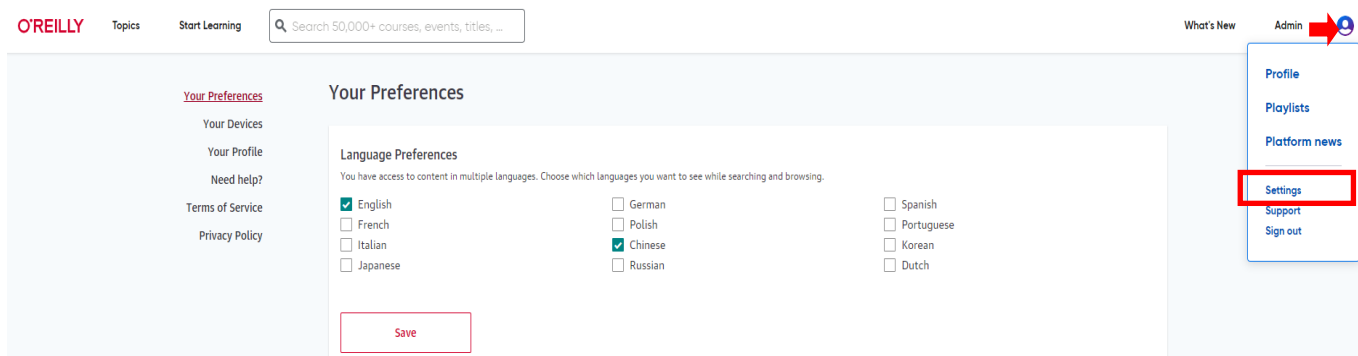
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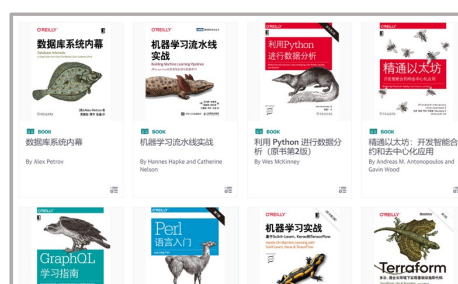
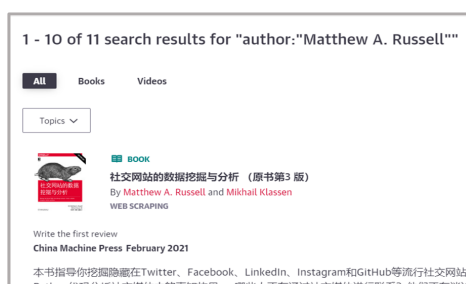


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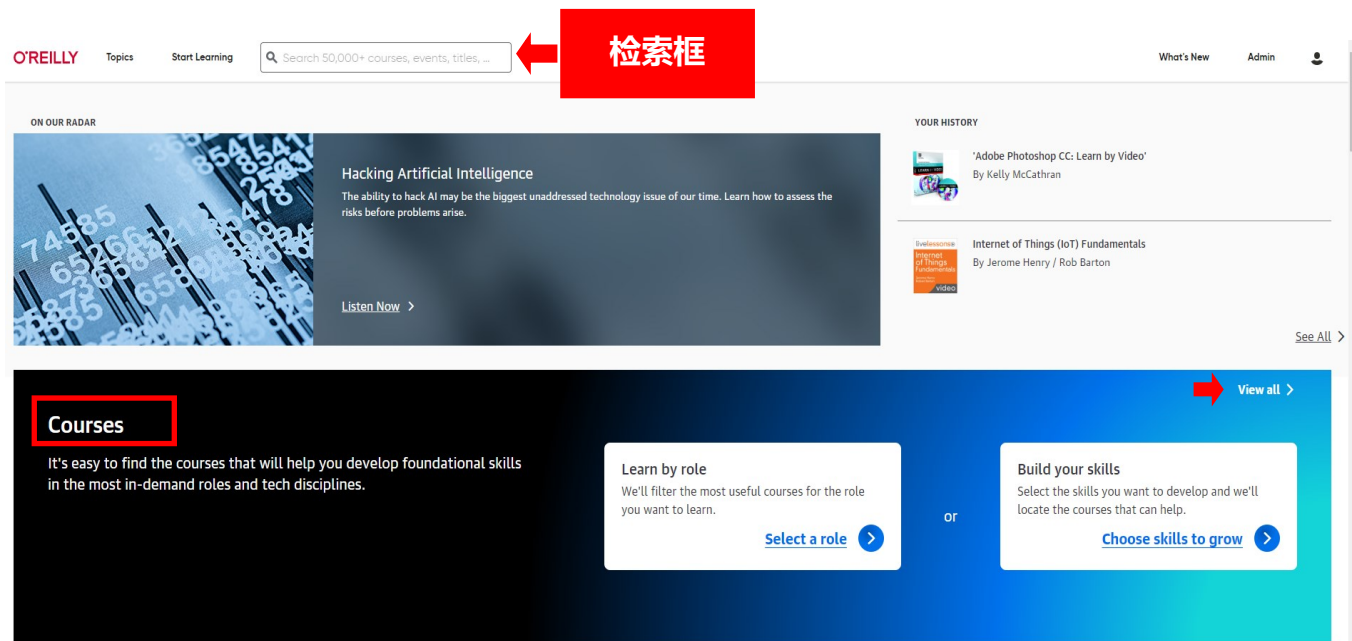


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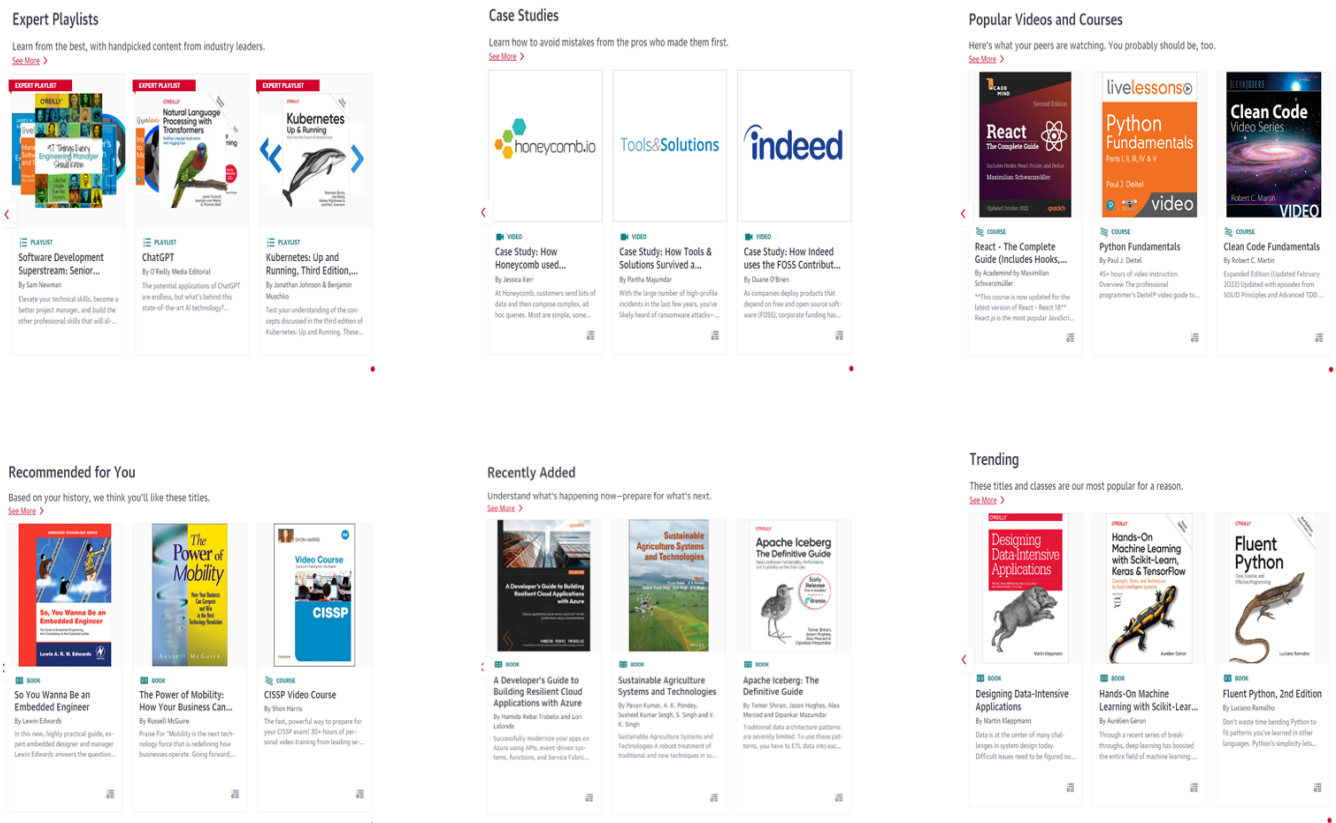


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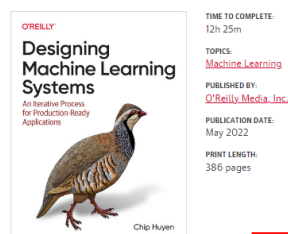
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BOOK Designing Machine Learning Systems

★★★★★ 18 reviews
 By Chip Huyen



TIME TO COMPLETE:
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 PUBLICATION DATE:
May 2022
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386 pages

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Machine learning systems are both complex and unique. Complex because they consist of many different components and involve many different stakeholders. Unique because they're data dependent, with data varying wildly from one use case to the next. In this book, you'll learn a holistic approach to designing ML systems that are reliable, scalable, maintainable, and adaptive to changing environments and business requirements.

Author Chip Huyen, co-founder of Claypot AI, considers each design decision—such as how to process and create training data, which features to use, how often to retrain models, and what to monitor—in the context of how it can help your system as a whole achieve its objectives. The iterative framework in this book uses actual case studies backed by ample references.

This book will help you tackle scenarios such as:

- Engineering data and choosing the right metrics to solve a business problem
- Automating the process for continually developing, evaluating, deploying, and updating models
- Developing a monitoring system to quickly detect and address issues your models might encounter in production
- Architecting an ML platform that serves across use cases
- Developing responsible ML systems

按目录浏览

Designing Machine Learning Systems
 By Chip Huyen

Preface

1. Overview Of Machine Learning Systems
2. Introduction To Machine Learning Systems Design
3. Data Engineering Fundamentals
4. Training Data
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Chapter 2. Introduction to Machine Learning Systems Design

Now that we've walked through an overview of ML systems in the real world, we can get to the fun part of actually designing an ML system. To reiterate from the first chapter, ML systems design takes a system approach to MLOps, which means that we'll consider an ML system holistically to ensure that all the components—the business requirements, the data stack, infrastructure, deployment, monitoring, etc.—and their stakeholders can work together to satisfy the specified objectives and requirements.

We'll start with the business requirements, which are built for a business, it must be driven by business objectives, which will need to be translated into ML objectives to guide the development of ML models.

Once everyone is on board with the objectives for our ML system, we'll need to set out some requirements to guide the development of this system. In this book, we'll consider the four requirements: reliability, scalability, maintainability, and adaptability. We will then introduce the iterative process for designing systems to

1. Overview of Machine Learning Systems 2. Introduction to Machine Learning Systems Design 3. Data Engineering Fundamentals

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Introduction to Python Fundamentals: Part 1

Introduction

Python Fundamentals LiveLessons, Part 1 of 5

Paul Deitel

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Transcription Description

Python Fundamentals Introduction to Python Fundamentals: Part 1 Lesson Overview: Before You Begin

you're going to be working hands-on with the Python programming language. This is now one of world's most popular programming languages and it's also the fastest growing among them. Professionals often discover quickly that they really like Python for a number of reasons. It's a general purpose programming language so you can use it for lots of different tasks. It's concise and extremely expressive so you can really write a lot of complex applications with relatively minimal amounts of code. It's very readable so it's easy to learn. It's interactive because there's an interactive mode in the IPython interpreter that we'll be using so you can go right down to the individual programming snippet level and see exactly what that statement or snippet is going to do immediately. There's a massive open source community surrounding Python as well, developing incredibly powerful libraries that you're going to take advantage of over the five parts of these LiveLessons. And the job market, in particular for

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