5 MUST READ

FOR MACHINE LEARNING

BY NISCHAY THAPA

HERE'S HOW TO GET THE MOST OUT OF THESE BOOKS:

Don't take a quantitative approach.

Go through the books, pick one and start there.

If you're a beginner, I highly recommend starting in the order I have listed here.

Read one book, consider how it can be applied in the industry and take notes.

Pick a problem, get the data, apply what you have learnt and document everything.

Learning + Practice + Reflection = Mastery

That is the best way to retain your knowledge.

"A must-read resource for anyone who is serious about embracing the opportunity of big data."
—Craig Vaughan, Global Vice President, SAP

Data Science *for* Business

What You Need to Know About Data Mining and Data-Analytic Thinking

Grayscale Edition

For Sale in the Indian Subcontinent & Select Countries Only*

*Rate Card Clause

Foster Provost & Tom Fawcett

SPD

Data Science for Business

WHAT YOU'LL LEARN

- Understand how data science **fits** in your **organisation**
- How you can **use** it for **competitive advantage**
- Treat **data** as a **business asset** that requires careful investment if you're to gain **real value**
- Approach business problems **analytically**
- Learn general concepts for **extracting knowledge** from data
- Apply **data science principles** when interviewing data science job candidate

O'REILLY®

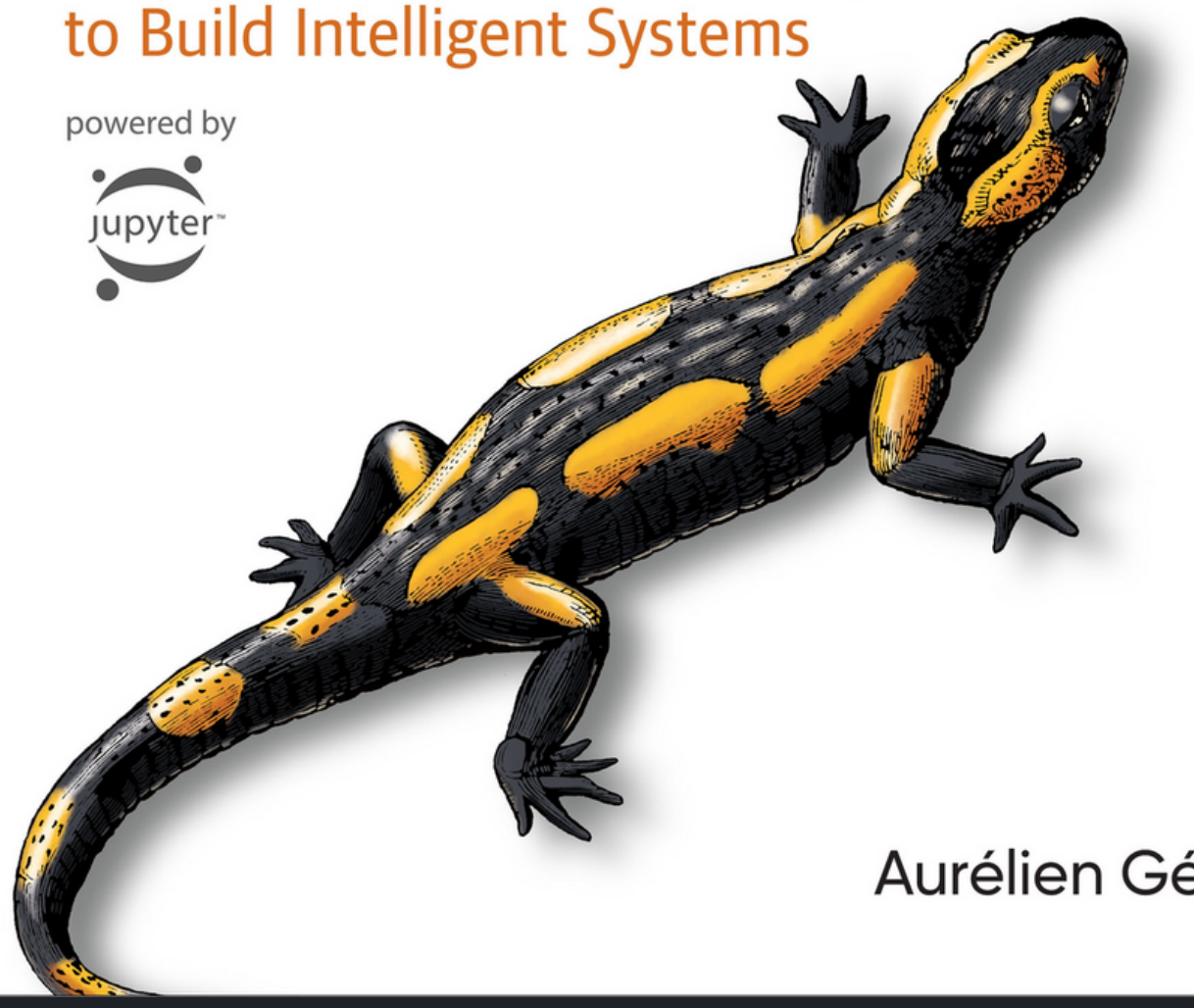
Third Edition

Hands-On Machine Learning with Scikit-Learn, Keras & TensorFlow

Concepts, Tools, and Techniques to Build Intelligent Systems

powered by

jupyter™

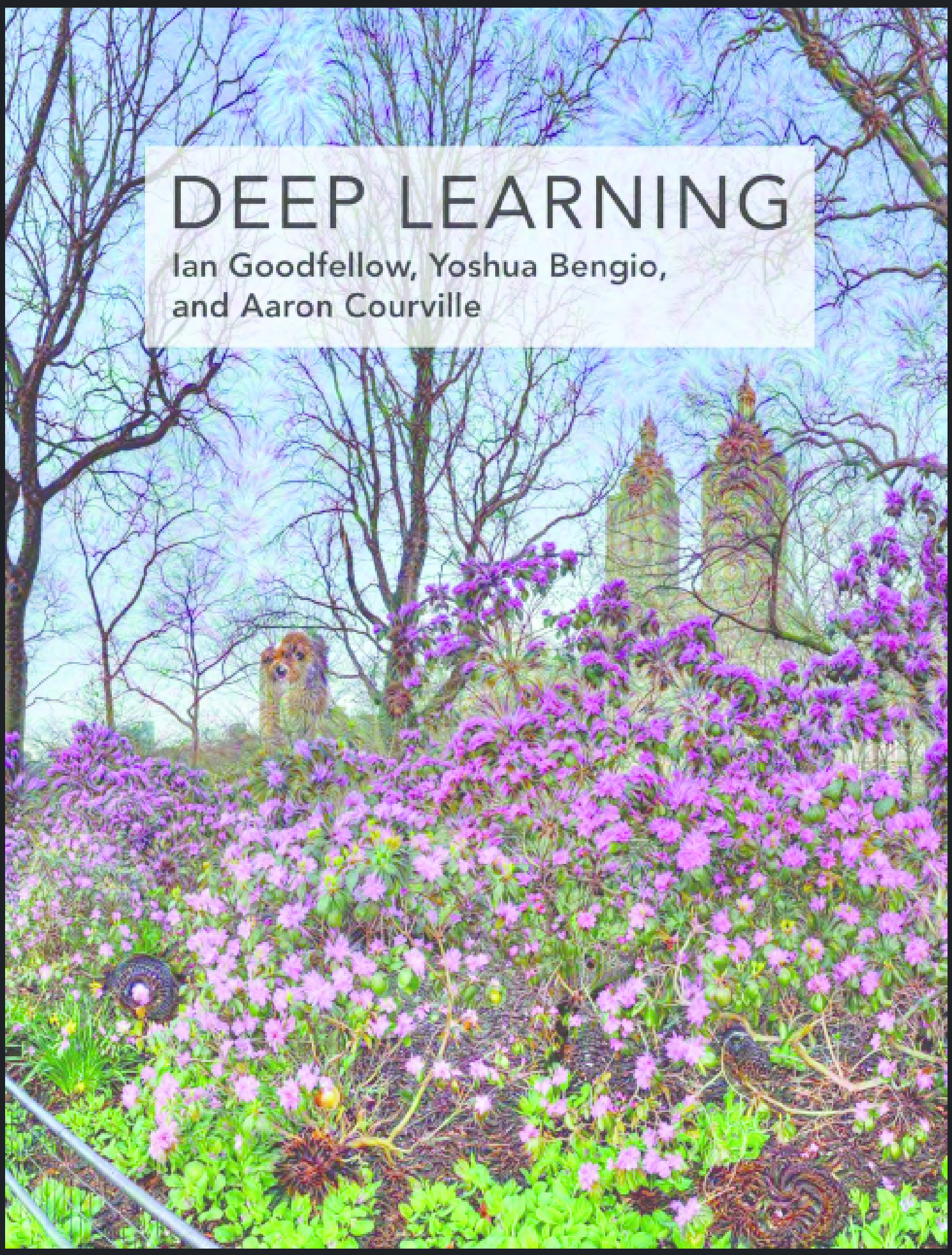


Aurélien Géron

Hands-on Machine Learning with Scikit-learn, Keras & Tensorflow

WHAT YOU'LL LEARN

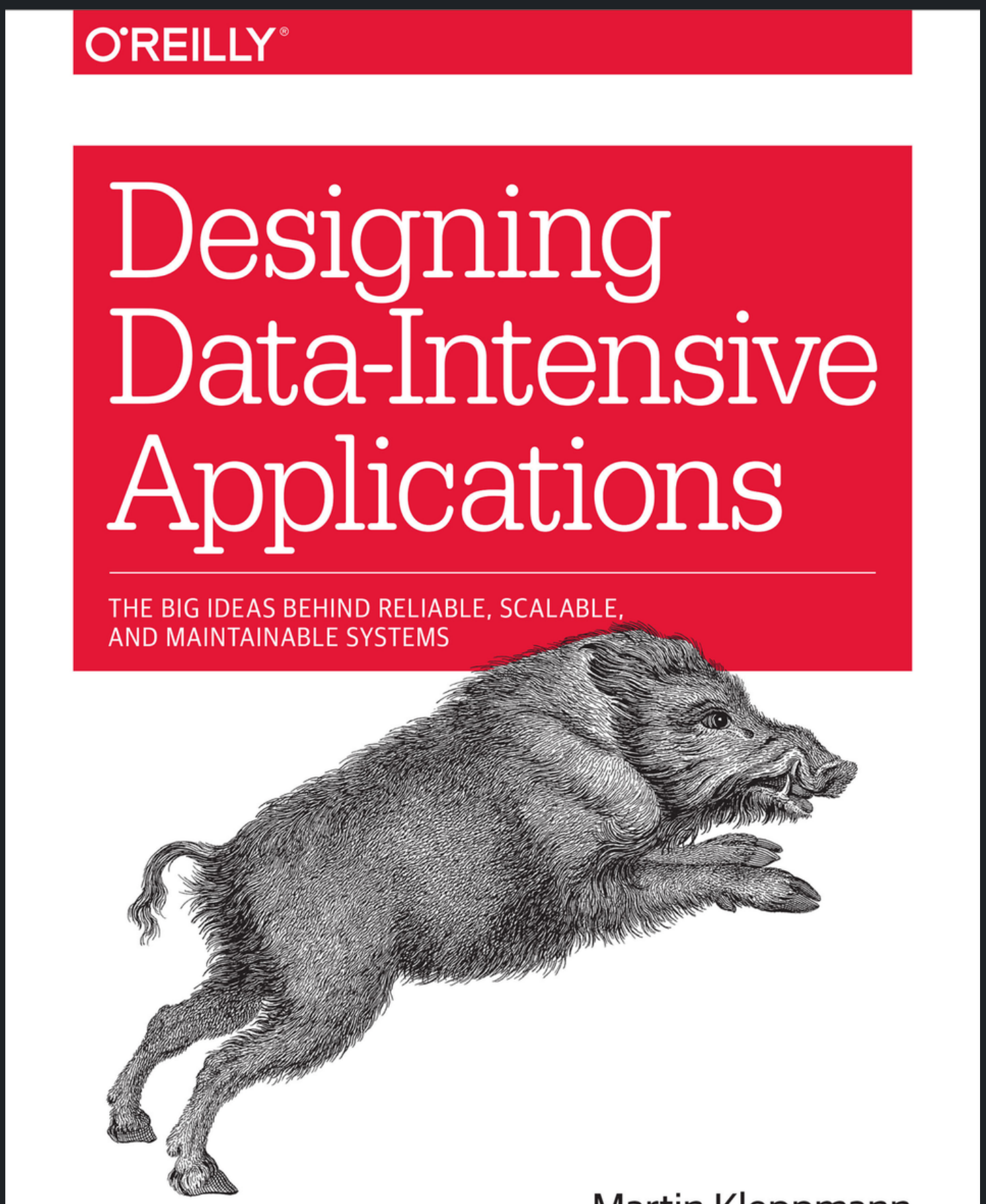
- Provides concrete examples of how you can apply machine learning
- Uses two popular frameworks: Scit-kit learn and Tensorflow
- Linear Regression
- Support Vector Machines
- Decision Trees
- Random Forests
- Ensemble Methods
- Neural Networks
- Convolutional Neural Networks
- Recurrent Neural Networks
- Deep Reinforcement Learning



Deep Learning

WHAT YOU'LL LEARN

- Linear Algebra
- Probability and information theory
- Numerical Computation
- Machine Learning
- Deep Feedforward networks
- Regularisation
- Optimisation Algorithms
- Convolutional Networks
- Sequence Modeling
- Linear Factor Models
- Autoencoders
- Representation Learning
- Deep generative models



Designing Data-Intensive Applications

WHAT YOU'LL LEARN

- Pros and Cons of various technologies for **processing** and **storing** data
- Fundamental principles of **data engineering**
- Understand the **distributed systems** behind modern databases
- Identify the **strengths** and **weaknesses** of different tools.
- Navigate the trade-offs around **consistency**, **scalability**, **fault tolerance**, and **complexity**
- Peek behind the scenes of major **online services**, and learn from their architectures

O'REILLY®

Designing Machine Learning Systems

An Iterative Process for Production-Ready Applications

Chip Huyen

Designing
Machine Learning Systems

WHAT YOU'LL LEARN

- 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**

RESOURCES

Data Science for Business

Hands on ML

Deep Learning

Designing Data Intensive Applications

Designing Machine Learning Systems

Nischay Thapa

Data Scientist | Mentor

If you enjoyed this post

Comment below what you want to learn next

@nischaythapa for tips around Data Science, Data Engineering, Machine Learning & Cloud