Practical MLOps

Getting your models into production is the fundamental challenge of machine learning. MLOps offers a set of proven principles aimed at solving this problem in a reliable and automated way. This insightful guide takes you through what MLOps is (and how it differs from DevOps) and shows you how to put it into practice to operationalize your machine learning models.

Current and aspiring machine learning engineers—or anyone familiar with data science and Python—will build a foundation in MLOps tools and methods (along with AutoML and monitoring and logging), then learn how to implement them in AWS, Microsoft Azure, and Google Cloud. The faster you deliver a machine learning system that works, the faster you can focus on the business problems you're trying to crack. This book gives you a head start.

- Apply DevOps best practices to machine learning
- Build production machine learning systems and maintain them
- Monitor, instrument, load-test, and operationalize machine learning systems
- Choose the correct MLOps tools for a given machine learning task
- Run machine learning models on a variety of platforms and devices, including mobile phones and specialized hardware

"MLOps is essential for operationalizing ML use cases into production as companies increasingly depend on ML to stay competitive. This book is a comprehensive guide to MLOps and a must for everyone that is involved in machine learning."

—**Krishna Anumalasetty**
Principal Program Manager
for Azure at Microsoft

Noah Gift is the founder of Pragmatic A.I. Labs. He teaches and designs graduate machine learning (ML), MLOps, AI, and data science courses, and consults on ML and cloud architecture for students and faculty at several major universities.

Alfredo Deza is a passionate software engineer, speaker, author, and former Olympic athlete with almost two decades of DevOps and software engineering experience. He teaches ML engineering and lectures worldwide on technology and personal development.