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Learning PyTorch 2.0, Second Edition Matthew Rosch,2024-10-05 Learning PyTorch 2 0 Second Edition is a fast learning hands on book that emphasizes practical PyTorch scripting and efficient model development using PyTorch 2 3 and CUDA 12 This edition is

centered on practical applications and presents a concise methodology for attaining proficiency in the most recent features of PyTorch. The book presents a practical program based on the fish dataset which provides step by step guidance through the processes of building training and deploying neural networks with each example prepared for immediate implementation. Given your familiarity with machine learning and neural networks this book offers concise explanations of foundational topics allowing you to proceed directly to the practical advanced aspects of PyTorch programming. The key learnings include the design of various types of neural networks, the use of torch compile for performance optimization, the deployment of models using TorchServe and the implementation of quantization for efficient inference. Furthermore, you will also learn to migrate TensorFlow models to PyTorch using the ONNX format. The book employs essential libraries including torchvision, torchserve, tf2onnx, onnxruntime, and requests to facilitate seamless integration of PyTorch with production environments. Regardless of whether the objective is to fine tune models or to deploy them on a large scale, this second edition is designed to ensure maximum efficiency and speed with practical PyTorch scripting at the forefront of each chapter.

Key Learnings:

- Master tensor manipulations and advanced operations using PyTorch's efficient tensor libraries.
- Build feedforward, convolutional, and recurrent neural networks from scratch.
- Implement transformer models for modern natural language processing tasks.
- Use CUDA 12 and mixed precision training AMP to accelerate model training and inference.
- Deploy PyTorch models in production using TorchServe, including multi-model serving and versioning.
- Migrate TensorFlow models to PyTorch using ONNX format for seamless cross-framework compatibility.
- Optimize neural network architectures using torch compile for improved speed and efficiency.
- Utilize PyTorch's Quantization API to reduce model size and speed up inference.
- Setup custom layers and architectures for neural networks to tackle domain-specific problems.
- Monitor and log model performance in real time using TorchServe's built-in tools and configurations.

Table of Content: Introduction To PyTorch 2.3 and CUDA 12, Getting Started with Tensors, Building Neural Networks with PyTorch, Training Neural Networks, Advanced Neural Network Architectures, Quantization and Model Optimization, Migrating TensorFlow to PyTorch, Deploying PyTorch Models with TorchServe.

MLOps with Red Hat OpenShift Ross Brigoli, Faisal Masood, 2024-01-31. Build and manage MLOps pipelines with this practical guide to using Red Hat OpenShift Data Science, unleashing the power of machine learning workflows.

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- Grasp MLOps and machine learning project lifecycle through concept introductions.
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Purchase of the print or Kindle book includes a free PDF eBook. **Book Description:** MLOps with OpenShift offers practical insights for implementing MLOps workflows on the dynamic OpenShift platform. As organizations worldwide seek to harness the power of machine learning operations, this book lays the foundation for your MLOps success. Starting with an exploration of key MLOps concepts including data preparation, model training, and deployment, you'll prepare to unleash OpenShift capabilities, kicking off with a primer on containers, pods, operators, and more. With the groundwork in place, you'll

be guided to MLOps workflows uncovering the applications of popular machine learning frameworks for training and testing models on the platform As you advance through the chapters you ll focus on the open source data science and machine learning platform Red Hat OpenShift Data Science and its partner components such as Pachyderm and Intel OpenVino to understand their role in building and managing data pipelines as well as deploying and monitoring machine learning models Armed with this comprehensive knowledge you ll be able to implement MLOps workflows on the OpenShift platform proficiently What you will learn Build a solid foundation in key MLOps concepts and best practices Explore MLOps workflows covering model development and training Implement complete MLOps workflows on the Red Hat OpenShift platform Build MLOps pipelines for automating model training and deployments Discover model serving approaches using Seldon and Intel OpenVino Get to grips with operating data science and machine learning workloads in OpenShift Who this book is for This book is for MLOps and DevOps engineers data architects and data scientists interested in learning the OpenShift platform Particularly developers who want to learn MLOps and its components will find this book useful Whether you re a machine learning engineer or software developer this book serves as an essential guide to building scalable and efficient machine learning workflows on the OpenShift platform

Artificial Intelligence for IoT Cookbook Michael Roshak, 2021-03-05

Implement machine learning and deep learning techniques to perform predictive analytics on real time IoT data Key Features Discover quick solutions to common problems that you ll face while building smart IoT applications Implement advanced techniques such as computer vision NLP and embedded machine learning Build maintain and deploy machine learning systems to extract key insights from IoT data Book Description Artificial intelligence AI is rapidly finding practical applications across a wide variety of industry verticals and the Internet of Things IoT is one of them Developers are looking for ways to make IoT devices smarter and to make users lives easier With this AI cookbook you ll be able to implement smart analytics using IoT data to gain insights predict outcomes and make informed decisions along with covering advanced AI techniques that facilitate analytics and learning in various IoT applications Using a recipe based approach the book will take you through essential processes such as data collection data analysis modeling statistics and monitoring and deployment You ll use real life datasets from smart homes industrial IoT and smart devices to train and evaluate simple to complex models and make predictions using trained models Later chapters will take you through the key challenges faced while implementing machine learning deep learning and other AI techniques such as natural language processing NLP computer vision and embedded machine learning for building smart IoT systems In addition to this you ll learn how to deploy models and improve their performance with ease By the end of this book you ll be able to package and deploy end to end AI apps and apply best practice solutions to common IoT problems What you will learn Explore various AI techniques to build smart IoT solutions from scratch Use machine learning and deep learning techniques to build smart voice recognition and facial detection systems Gain insights into IoT data using algorithms and implement them in projects Perform anomaly detection for time

series data and other types of IoT dataImplement embedded systems learning techniques for machine learning on small devicesApply pre trained machine learning models to an edge deviceDeploy machine learning models to web apps and mobile using TensorFlow js and JavaWho this book is for If you re an IoT practitioner looking to incorporate AI techniques to build smart IoT solutions without having to trawl through a lot of AI theory this AI IoT book is for you Data scientists and AI developers who want to build IoT focused AI solutions will also find this book useful Knowledge of the Python programming language and basic IoT concepts is required to grasp the concepts covered in this artificial intelligence book more effectively

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