Additions

- 1.4. Preallocating NumPy Arrays
- 2.6. Loading a Parquet File
- 2.7. Loading an Avro File
- 2.8. Querying a SQLite Database
- 2.9. Querying a Remote SQL Database
- 2.10. Loading Data from a Google Sheet
- 2.11. Loading Data from an S3 Bucket
- 2.12. Loading Unstructured Data
- 3.2. Getting Information about the Data
- 3.3. Slicing DataFrames
- 3.5. Sorting Values
- 3.16. Aggregating Operations and Statistics
- 6.8. Performing Named-Entity Recognition
- 6.11. Using Text Vectors to Calculate Text Similarity in a Search Query
- 6.12. Using a Sentiment Analysis Classifier
- 8.15. Using Pretrained Embeddings as Features
- 8.16. Detecting Objects with OpenCV
- 8.17. Classifying Images with Pytorch
- 14.6. Evaluating Random Forests with Out-of-Bag Errors
- 14.12. Training an XGBoost Model
- 14.13. Improving Real-Time Performance with LightGBM

- 15.5. Finding Approximate Nearest Neighbors
- 15.6. Evaluating Approximate Nearest Neighbors
- 20. Tensors with PyTorch
- 20.0. Introduction
- 20.1. Creating a Tensor
- 20.2. Creating a Tensor from NumPy
- 20.3. Creating a Sparse Tensor
- 20.4. Selecting Elements in a Tensor
- 20.5. Describing a Tensor
- 20.6. Applying Operations to Elements
- 20.7. Finding the Maximum and Minimum Values
- 20.8. Reshaping Tensors
- 20.9. Transposing a Tensor
- 20.10. Flattening a Tensor
- 20.11. Calculating Dot Products
- 20.12. Multiplying Tensors
- 21.1. Using Autograd with PyTorch
- 22. Neural Networks for Unstructured Data
- 22.0. Introduction
- 22.1. Training a Neural Network for Image Classification
- 22.2. Training a Neural Network for Text Classification
- 22.3. Fine-Tuning a Pretrained Model for Image Classification

- 22.4. Fine-Tuning a Pretrained Model for Text Classification
- 23.2. Saving and Loading a TensorFlow Model
- 23.3. Saving and Loading a PyTorch Model
- 23.4. Serving scikit-learn Models
- 23.5. Serving TensorFlow Models
- 23.6. Serving PyTorch Models in Seldon

Removings:

- 2.6 Querying a SQL Database
- 3.2 Describing the Data
- 3.3 Navigating DataFrames
- 8.14 Encoding Mean Color as a Feature
- 14.11 Evaluating Random Forests with Out-of-Bag Errors (Moved to 14.6)
- 20.12 k-Fold Cross-Validating Neural Networks
- 20.15 Classifying Images
- 20.16 Improving Performance with Image Augmentation
- 20.17 Classifying Text
- 21.2 Saving and Loading a Keras Model