

- Fashion MNIST (*C1_W2_Assignment.js*)

Ungraded Lab

1. MNIST (*C1_W2_Lab_1_mnist.html*)

Week 3

Assignment

- Converting a Python Model to JavaScript (*C1_W3_Assignment.ipynb*)

Ungraded Lab

1. Toxicity Classifier (*C1_W3_Lab_1_toxicity.html*)
2. Image Classification Using MobileNet (*C1_W3_Lab_2_mobilenet.html*)
3. Linear Model (*C1_W3_Lab_3A_linear_to_JavaScript.ipynb* and *C1_W3_Lab_3B_linear.html*)

Week 4

Assignment

- Rock Paper Scissors (*C1_W4_Assignment.js*)

Ungraded Lab

1. Rock Paper Scissors (*C1_W4_Lab_1_retrain.html*)

C2 - Device-based Models with TensorFlow Lite

Week 1

Assignment

- Train Your Own Model and Convert It to TFLite (*C2_W1_Assignment.ipynb*)

Ungraded Labs

1. Running TFLite Models (*C2_W1_Lab_1_Linear_Regression.ipynb*)
2. Transfer Learning with TensorFlow Hub for TFLite (*C2_W1_Lab_2_Transfer_Learning.ipynb*)

Week 2 (Android)

Assignment (Optional)

- Rock, Paper & Scissors with TensorFlow Hub - TFLite (*C2_W2_Assignment.ipynb* and *C2_W2_Assignment_Solution.ipynb*)

Ungraded Labs

- Cats vs Dogs
- Image Classification
- Object Detection

Week 3 (iOS)

Assignment (Optional)

- Rock, Paper & Scissors with TensorFlow Hub - TFLite (*C2_W3_Assignment.ipynb* and *C2_W3_Assignment_Solution.ipynb*)

Ungraded Labs

- Cats vs Dogs
- Image Classification
- Object Detection

Week 4 (Raspberry Pi)

Assignment (Optional)

- Rock, Paper & Scissors with TensorFlow Hub - TFLite (*C2_W4_Assignment.py* and *C2_W2_Assignment_Solution.py*)

Ungraded Labs

- Cats vs Dogs
- Image Classification
- Object Detection

C3 - Data Pipelines with TensorFlow Data Services

Week 1

Assignment

- TFDS with Rock, Paper and Scissors (*C3_W1_Assignment.ipynb*)

Ungraded Labs

1. TFDS Hellow World (*C3_W1_Lab_1_tfds_hello_world.ipynb*)
2. Horses or Humans (*C3_W1_Lab_2_horses_or_humans.ipynb*)

Week 2

Assignment

- Transfer Learning and Splits API (*C3_W2_Assignment.ipynb*)

Ungraded Labs

1. Exploring the Splits API (*C3_W2_Lab_1_splits_api.ipynb*)
2. TFRecords (*C3_W2_Lab_2_tfreords.ipynb*)

Week 3

Assignment

- Classify Structured Data (*C3_W3_Assignment.ipynb*)

Ungraded Lab

1. Classify structured data with feature columns (*C3_W3_Lab_1_feature_columns.ipynb*)
2. tf.data: Build TensorFlow input pipelines (*C3_W3_Lab_2_data.ipynb*)
3. Load CSV data (*C3_W3_Lab_3_csv.ipynb*)

Week 4

Assignments

1. Parallelization with TFDS (*C3_W4_A1_Assignment.ipynb*)
2. Adding a Dataset of your Own to TFDS (*C3_W4_A2_Assignment_Optional.ipynb* and *C3_W4_A2_Assignment_Optional_Solution.ipynb*)

C4 - Advanced Deployment Scenarios with TensorFlow

Week 1

Assignment

- Train Your Own Model and Serve It With TensorFlow Serving (*C4_W1_Assignment.ipynb* and *C4_W1_Assignment_Solution.ipynb*)

Ungraded Labs

1. Getting Started with TensorFlow Serving (*C4_W1_Lab_1_tfserving_hello_world.ipynb*)
2. Train and serve a TensorFlow model with TensorFlow Serving (*C4_W1_Lab_2_Train_and_serve_a_TensorFlow_model_with_TensorFlow_Serving.ipynb*)

Week 2

Assignment

- Exporting an MNIST Classifier in SavedModel Format (*C4_W2_Assignment.ipynb*)

Ungraded Labs

1. Getting Started with TensorFlow Hub (*C4_W2_Lab_1_tfhub_basic_examples.ipynb*)
2. Text Classification (*C4_W2_Lab_2_text_classification.ipynb*)
3. Transfer Learning with TensorFlow Hub (*C4_W2_Lab_3_transfer_learning.ipynb*)

Week 3

Assignment

- TensorBoard with Fashion MNIST (*C4_W3_Assignment.ipynb*)

Ungraded Labs

- Displaying image data in TensorBoard (*C4_W3_Lab_1_image_summaries.ipynb*)

Week 4

Ungraded Labs

- Custom Federated Algorithms, Part 1: Introduction to the Federated Core
(C4_W4_Lab_1_custom_federated_algorithms.ipynb)




Releases

No releases published

Packages

No packages published

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Languages

