Instructor-led Nvidia-workshop

Fundamentals of Deep Learning

Workshop Highlights

Using deep learning, computers can learn and recognize patterns from data that are considered too complex or subtle for expert-written software.

In this workshop, you'll learn how deep learning works through hands-on exercises in computer vision and natural language processing. You'll train deep learning models from scratch, learning tools and tricks to achieve highly accurate results. You'll also learn to leverage freely available, state-of-the-art pre-trained models to save time and get your deep learning application up and running quickly.

Workshop Outline

Introduction (15 mins)

The Mechanics of Deep Learning   (120 mins)

Pre-trained Models and Recurrent Networks (120 mins)

Final Project: Object Classification (120 mins)

Final Review (15 mins)

Workshop Details

Duration: 8 hours

Prerequisites: An understanding of fundamental programming concepts in Python 3, such as functions, loops, dictionaries, and arrays; familiarity with Pandas data structures; and an understanding of how to compute a regression line.
Suggested materials to satisfy prerequisites: Python Beginner's Guide.

Technologies: Tensorflow 2 with Keras, Pandas

Assessment Type: Skills-based coding assessments evaluate attendees' ability to train a deep learning model to high accuracy.

Certificate: Upon successful completion of the assessment, participants will receive an NVIDIA DLI certificate to recognize their subject matter competency and support professional career growth.

Hardware Requirements: Desktop or laptop computer capable of running the latest version of Chrome or Firefox. Each participant will be provided with dedicated access to a fully configured, GPU-accelerated server in the cloud.

Languages: English

Further Details, see
https://www.nvidia.com/en-us/training/instructor-led-workshops/fundamentals-of-deep-learning/