

Computer Vision

The Programming Assignment | Autumn, 2024



Getting Started with Deep Learning

“Education is only a ladder to gather fruit from the tree of knowledge, not the fruit itself.”

– Albert Einstein (1879 - 1955)

Prerequisites:

1. An understanding of fundamental programming concepts in **Python 3** such as functions, loops, dictionaries, and arrays.
2. A familiarity of **Pandas datastructures**.
3. An understanding of how to compute a **regression line**.

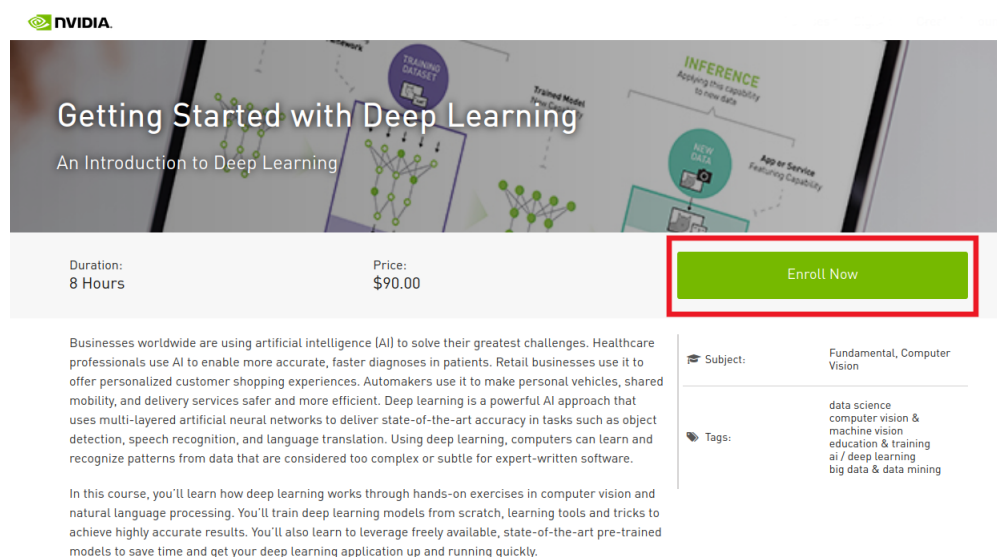
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Create an account with your work email address in order to obtain access to the NVIDIA Deep Learning Institute online course for FREE. To do this, follow this link : learn.nvidia.com/join.

Assignment

Follow the link below and push **Enroll Now** button:

[Getting Started with Deep Learning](#)



Getting Started with Deep Learning
An Introduction to Deep Learning

Duration: 8 Hours Price: \$90.00 **Enroll Now**

Businesses worldwide are using artificial intelligence (AI) to solve their greatest challenges. Healthcare professionals use AI to enable more accurate, faster diagnoses in patients. Retail businesses use it to offer personalized customer shopping experiences. Automakers use it to make personal vehicles, shared mobility, and delivery services safer and more efficient. Deep learning is a powerful AI approach that uses multi-layered artificial neural networks to deliver state-of-the-art accuracy in tasks such as object detection, speech recognition, and language translation. Using deep learning, computers can learn and recognize patterns from data that are considered too complex or subtle for expert-written software.

In this course, 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.

Subject: Fundamental, Computer Vision

Tags: data science, computer vision & machine vision, education & training, ai / deep learning, big data & data mining


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Review Order

Upon successful completion of the assessment, you'll receive an NVIDIA DLI certificate to recognize your subject matter competency and support your professional career growth.

By participating in this course, you will:

1. Learn the fundamental techniques and tools required to train a deep learning model.
2. Gain experience with common deep learning data types and model architectures.
3. Enhance datasets through data augmentation to improve model accuracy.

4. Leverage transfer learning between models to achieve efficient results with less data and computation.
5. Build confidence to take on your own project with a modern deep learning framework.

Evaluation

The programming assignment is worth a total of 30 points.

Submission

The assignment is considered successfully completed and credited to the maximum score (30 points), if you finished it before the deadline and received a certificate. To confirm the successful completion of the assessment, please, leave the link on your certificate in a .txt file then upload it at <https://cloud.comsys.kpi.ua/s/EixSSNw94YXJW9z>

Please, give the name to the .txt file in this format: `First name Last Name_Group.pdf`

Deadline: before 11:59 PM, Nov 15