**Setup-NVIDIA-GPU-for-Deep-Learning**

**Step 1: NVIDIA Video Driver**

You should install the latest version of your GPUs driver. You can download drivers here:

* [NVIDIA GPU Drive Download](https://www.nvidia.com/Download/index.aspx)

**Step 2: Visual Studio C++**

You will need Visual Studio, with C++ installed. By default, C++ is not installed with Visual Studio, so make sure you select all of the C++ options.

* [Visual Studio Community Edition](https://visualstudio.microsoft.com/vs/community/)

**Step 3: Anaconda/Miniconda**

You will need anaconda to install all deep learning packages

* [Download Anaconda](https://www.anaconda.com/download/success)

**Step 4: CUDA Toolkit**

* [Download CUDA Toolkit](https://developer.nvidia.com/cuda-toolkit-archive)

**Step 5: cuDNN**

* [Download cuDNN](https://developer.nvidia.com/rdp/cudnn-archive)

**Step 6: Install PyTorch**

* [Install PyTorch](https://pytorch.org/get-started/locally/)

**Finally run the following script to test your GPU**

import torch

print("Number of GPU: ", torch.cuda.device\_count())

print("GPU Name: ", torch.cuda.get\_device\_name())

device = torch.device('cuda' if torch.cuda.is\_available() else 'cpu')

print('Using device:', device)