

# Introduction to PyTorch

CIS-428: Introduction to Computer Vision

Hassan Askary

CVL@PIEAS

# What is PyTorch?

A tensor library by Facebook.

Allows you to do tensor computation on the GPU.

Design, train, and deploy deep learning models.

Also contains specialized libraries related to Computer Vision, NLP, Audio etc.

# Installing PyTorch

- Instructions on this site: <https://pytorch.org/get-started/locally/>
- Documentation here: <https://pytorch.org/docs/stable/index.html>

# Layout of PyTorch

## Python API

- torch
- torch.nn
- Torch.nn.functional
- torch.optim
- torch.utils.data

## Libraries

- torchvision
- torchtext
- torchaudio

# Building MNIST Classifier