



Module PMRF-ISSS056/II/2024

Deep Learning for Computer Vision

Name of the PMRF student

Nishanth Shetty

Required background of the students taught

Knowledge of Python (with OOP), a basic course in machine learning.

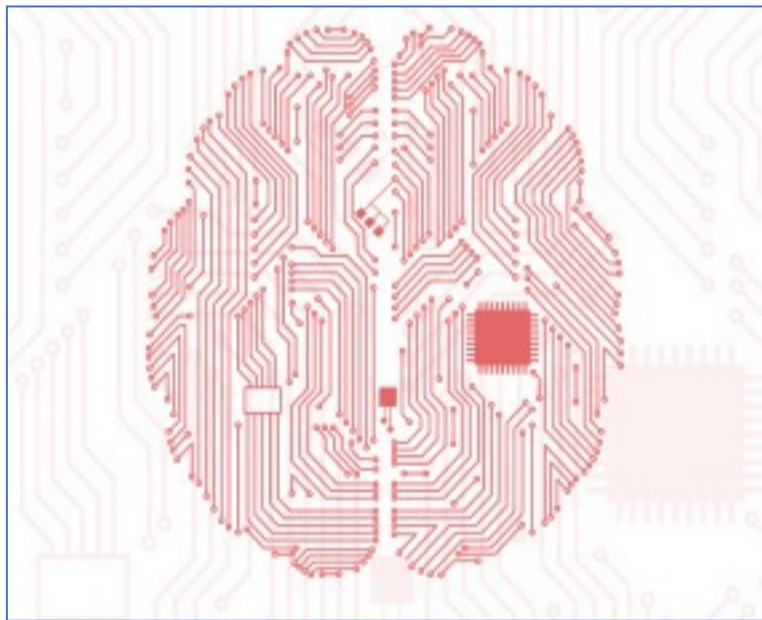


Image Courtesy: <https://tinyurl.com/pydlcv>

Details of the content of the module

Live Lectures (Online):

Introduction to Deep Learning, optimization, linear classifiers, neural networks, back-propagation, convolutional neural networks and related architectures, training neural networks, hardware and software aspects of training, pre-training and augmentations, visualizing and understanding deep representations of images, object detection, semantic segmentation, sequence modelling — recurrent neural networks, transformers and attention.

Live Lab Sessions (Online):

PyTorch 101, k-nearest neighbour classifier, linear Classifiers, 2 layer Neural Network, MNIST Challenge, Fully Connected Neural Networks and CNNs, Object Detection.

Schedule of the module

Start: 25th March, 2024

End: 31st May, 2024

Lectures on Monday and Friday (1 hour -- 11:00 a.m. to 1200 p.m.)

Total: 24 hours (16 hours of lectures + 8 hours of lab)

Meeting link : Will be shared later

[Link](#)

Contact email ID: iss.forum@gmail.com

Registration link:

<https://forms.gle/kLhnQujDFdeWAjR48>