

KPR INSTITUTE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF ECE



WORKSHOP ON “Advanced Deep Learning using NVIDIA DIGITS”

KPR-Artificial Intelligence for Real time
Applications Group (KPR-AIRAG)

6th – 7th September 2019

CP Lab

10:00 am to 05:00 pm

Department of ECE and KPR-**Artificial Intelligence for Real time Applications Group (KPR-AIRAG)** organized a two days national level workshop on “Advanced Deep Learning using NVIDIA DIGITS”. The workshop received huge registration and totally 50 participants including 15 external and 35 internal members participated including faculty members, research scholars and students. The sessions was handled by NVIDIA DLI certified instructors Dr.M.G.Sumithra, Prof & Head/ECE, Mr.V.Chandran/AP/ECE and Ms.M.Suriya/AP(Sr.G)/ECE. The workshop covered following topics including hands – on modules for each session.

Day 1:

- Basics of Convolutional Neural Networks
- **Lab 1** : Hands on with Tensor Flow & Pytorch
- Designing & Optimizing Neural Network Model
- **Lab 2:** Malaria Parasite Detection
- Advanced Deep Learning algorithms
- **Lab 3:** YOLO algorithm for object detection
- Generative modelling in Deep Learning
- **Lab 4:** Conditional Generative Adversial Networks (C-GAN's)
- Image Classification using NVIDIA Digits Lab
- Object detection Using NVIDIA Digits Lab

Day 2:

- NVIDIA certification training and assessment on “Fundamentals of Computer vision”

All the participants received participation certificate and NVIDIA course completion certificate. The workshop received highly positive feedback and they requested further sessions in near future.



