

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND
TECHNOLOGY (AUTONOMOUS)
ADVANCED ACADEMIC CENTER
A CENTER FOR INTER- DISCIPLINARY RESEARCH

INVITED TALK ON SCIENCE BEHIND DATA SCIENCE

RESOURCE PERSON: G.V.K. MADHAV, Systems Engineer, EG
RnD, Hewlett Packard Enterprise, Bangalore

DATE: 30-03-2019

TARGET AUDIENCE: B. TECH STUDENTS OF I, II & III year

PROFILE OF THE SPEAKER:

Madhav works for HPE(Hewlett-Packard Enterprise) in the HPC (High-Performance Computing) RnD division, working specifically on qualifying accelerator servers of HPE with NVIDIA and AMD GPUs.He has expertise in OpenCL, CUDA frameworks and develops codes used for evaluating the efficiency and benchmarking of accelerators or GPUs.He graduated from IISc with an MTech degree in Computational Science from the Department of Computational and Data Sciences.

His Master's thesis work at IISc on using GPUs for improving the performance of LiFE(Linear Fascicle Evaluation) software got published as a poster at "OHBM (Organization for Human Brain Mapping) 2018 Conference. He also has a Post-Graduate degree in Mathematics from Osmania University and a Post-Graduate level degree in Computer Science from IETE.

IMPORTANT POINTS COVERED:

Extending a matrix to span more than two dimensions results in a tensor. Tensors are data structures that represent multi-way data that is found in many modern applications. Recently, tensors have become

popular in communities such as data mining, recommender systems, and health informatics [8,10,17]. Tensor factorization can be used to find a low rank representation of sparse data, which provides insights not usually obvious in the original dimensionality.