MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC - AUTONOMOUS)

Report on
One-day Awareness Programme on
'Machine Learning for Data Science and Analytics'
4th May 2018

Submitted by: Dr. R.Sudhakar, Sr.Assistant Professor, Department of Computer Science and Engineering

The Madanapalle Institute of Technology & Science organized a one day awareness program for "Machine Learning For Data Science and Analytics" on 04 May 2018.Mr. K.Shankar ,Sr.Data Scientist ,BrandIdea Limited Chennai, was the resource person of this awareness program. He broadly focused on the following sub-topics:

Introduction to Data Science

- ➢ Types of Data
- ➢ Why Data
- ➢ Different types of Data
- ➢ Data Quality
- ➢ Law of Diminishing Returns
- ➢ Design for Scalability

Introduction to Intelligence

- ➢ Business Intelligence
- ➢ Artificial Intelligence (with respect to the software)
- ➢ Defining AI(Artificial Intelligence) and ML(Machine Learning)
- ➢ Expert System

Neural Networks

- ➢ How predictions are made in neural network
- ➢ How Back propagation Learning works
- ➢ Data Preparation
- ➢ Combating Over fitting

- ➢ Applying and training the neural network
- ➢ Explaining the network
- ➢ Case Study Using Weka Machine Learning Tool and Using R Language

Business Analysis

- ➢ Reporting
- ➢ Managing
- ➢ Olap Tools
- ➢ Applications
- ➢ Power Builder

Machine learning

- ➢ Introduction to Data Mining
- ➢ What is data mining?
- ➢ Related technologies
- ➢ Machine Learning, DBMS, OLAP, Statistics
- ➢ Data Mining Goals
- ➢ Stages of the Data Mining Process
- ➢ Data Mining Techniques
- ➢ Knowledge Representation Methods

<u>Proceedings of the Program</u>:

Day: 04 May 2018,

Dr. C. Yuvaraj, Principal of The Madanapalle Institute of Technology & Science, Madanapalle, Dr. M.Sakthi Ganesh, Professor and HOD, Mr. K.Shankar, Sr.Data Scientist-Chennai-Chief guest and keynote speaker of the awareness program were invited to the dais for the inaugural ceremony.

The awareness programme started with the introductory remarks by the convener Professor M.Sakthi Ganesh HOD/CSE. He welcomed all the resource persons and participants and detailed the objectives of the awareness program. He was highlighting the need of engineering students to learn at higher rate of effectiveness and efficiency due to the rapid growth of relevant information and the escalation of knowledge and skill requirements for most jobs. He stated that the most apparent need for teachers in engineering colleges was to engage their students in continued acquisition of knowledge through cloud technology. He appreciated all the participants for their interest in this awareness program and encouraged them to interact with the experts during the sessions to enrich their awareness of machine learning technology. Finally the programme coordinator Dr. R.Sudhakar thanked all for attending the awareness program.