



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY



(Autonomous Institution – UGC, Govt. of India)

ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON MACHINE LEARNING & DEEP LEARNING

29/04/19 TO 04/05/19

One week faculty development programme on “Machine learning and Deep learning “was conducted by the department of CSE from 29th April to 5th May. More than 110 faculty members participated and gained more information with hands on session using Python.

Dr.VSK Reddy, Principal has inaugurated the one week FDP and invited our chief guest Dr.A.Govardhan, Rector, JNTU and thanked him for his presence. He also insists the faculties of various institutions to update ourselves with the newer technologies. Also he appreciated the FDP coordinators for taking the initiative to organize the event.

Dr.M.Murali Krishna, Dean of Academics, has appreciated CSE department to choose the topic on Machine learning and Deep learning. He said it is the right time to conduct this FDP which will be useful for faculties as it is introduced as a part of curriculum.

Prof. K Kailasa Rao, Director of CSE and Dean Placements addressed the gathering with his informative speech about the machine learning. He said that it is mandatory for a faculty to make continuous learning on current technologies where this platform makes the best and for better understanding hands on session is provided.

Dr. D Sujatha, HOD, CSE formally welcomes all the participants and the chief guest and thanked our Principal for accepting in organizing this one week FDP. She also elaborated on Machine learning and insists faculty members to use this opportunity and grab the knowledge.

Dr.Thamayaba Khatoun, Coordinator, has elaborated on the one week FDP with the topics to be covered on Machine learning and Deep learning. She also thanked our chief guest, Principal and HOD for giving her this opportunity in organizing one week FDP.

Mr.Srinivasulu Reddy, CEO,Sankalpa Software Solutions,Hyderabad who is the speaker for the first day of FDP. He explained about the machine learning concepts and also on Data analytics and Visualization. He elaborated on basics of numpy in python like list, tuple, Dictionary, looping, array, indentation with hands on session using python.

Mr.Kagandeeep Thakur, Technical Director, Cognitive Creators, was the resource person from the second day of FDP and also for next three days. His session was very much interesting and with full energy as he explained all the concepts with hands on session for all the four days. He has explained how to install Anaconda and how to work on Spyder environment during hands on. He also covered on Linear Regression and its types, Decision Trees & Random Forests, Support Vector Machines & Kernel SVM, Naïve bayes, K-Means Clustering, Principal Component Analysis & Kernel PCA. Also on the last day he covered on Natural Processing and Neural networks.

Prof. K Kailasa Rao, Director of CSE and Dean Placements gave his presence on valedictory function and distributed certificates to all the participants. Finally **Dr. D Sujatha, HOD, CSE** has expressed her gratitude towards the management for providing resources for one week FDP. Also she extended in thanking our Principal, Speaker, Coordinators and the participants for making this FDP a grand success.

Event co-ordinators: Dr.D.Sujatha, Dr.Thaaayaba Khatoon, Mrs.M.Gayatri, Mr.Samba Sivdu, Mr.Manoj Kumar, Mrs.Kalpana, Mrs.V.Suneetha, Mrs.Arthi kumari, Mr.Shiva kumar, Mrs.R.Sujatha.

Topics covered on five days

Day 1- Introduction to Python Programming

Python Environment set up, Python for Data Analysis-NumPy, Python for Data Analysis-Pandas, Python for Data Visualization-Seaborn, Python for Data Visualization-Plotly and Cufflinks

Day 2- Introduction to Machine Learning

Linear Regression, Multiple Linear Regressions, Polynomial regression, Logistic Regression, K-Nearest Neighbours

Day 3- Decision Trees & Random Forests, Support Vector Machines & Kernel SVM

Day 4- Naïve bayes, K-Means Clustering

Day 5- Principal Component Analysis & Kernel PCA, Linear Discriminant Analysis (LDA), Introduction on Natural Language Processing

Day 6- Neural Nets and Deep Learning

Tensorflow- Convolution neural network, Artificial neural network

KERAS

- Keras for Classification and Regression in Typical Data Science Problems
- ANN,CNN on KERAS



