



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

One week workshop on Machine learning using Watson studio

Date: 10th to 14th March 2020

Venue: CSE 150 lab

One week workshop on “Machine learning using Watson studio” was conducted by the department of CSE from 10th to 14th March. More than 200 numbers of students participated and gained more information with hands on session using Watson studio.

Dr.VSK Reddy, Principal has inaugurated the one week workshop and invited our trainer **Mr.Kagandeeep Thakur, Technical Director, Cognitive Creators**. Sir has addressed the students to utilize the opportunity and to gain knowledge on machine learning.

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 students to make continuous learning on current technologies where this platform makes the best and for better understanding a hands on session is provided.

Dr. D Sujatha, HOD, CSE formally addressed the students and thanked our Principal for accepting in organizing this one week Work shop. She also elaborated on Machine learning and insists students to use this opportunity and grab the knowledge.

Mr.Kagandeeep Thakur, Technical Director, Cognitive Creators, was the resource person for conducting this one week workshop. His session was very much interesting and with full energy as he explained all the concepts with hands on session for all the days.

Topics covered on five days

DAY-1

Introduction on Machine learning: Basic definitions, types of learning, hypothesis space and inductive bias, evaluation, cross-validation, Linear regression, Decision trees, Instance based learning, Feature reduction, Collaborative filtering based recommendation. Installation on Data preprocessing

DAY-2

Introduction on regression: data Outliers, Normality, Linearity

Types of regression: LinearRegression, LogisticRegression, RidgeRegression, LassoRegression, Bayesian Linear Regression.

DAY-3

Introduction on classification: classification algorithms, such as KNN, Decision Trees, Logistic Regression and SVM.

Types of classification: Binary Classification, Multi-Class Classification, Multi-Label Classification, Imbalanced Classification.

DAY-4

Watson studio Introduction: IBM Watson Knowledge Catalog, Data Refinery, and the SPSS Modeler.

Applying classification on real life data set: Email Spam, Handwritten Digit Recognition

DAY-5

Introduction on clustering: how to use clustering for customer segmentation, grouping same vehicles, and also clustering of weather stations. Types of clustering, including Partitioned-based Clustering, Hierarchical Clustering, and Density-based Clustering.



