

Certificate Course in Machine Learning using Pythons

Course Duration: 100 Hrs

TOPIC	HOURS
INTRODUCTION OF MACHINE LEARNING -IMPORTANCE NCFS FOR THE AREA -APPLICATION -RECENT ADVANCEMENT	4 HRS
DIFFERENT TYPES OF LEARNINGS: -SUPERVISED -UNSUPERVISED -SEMI-SUPERVISED -REINFORCEMENT	2 HRS
PRACTICAL DEMONSTRATION: -WORKING WITH ERROR -READING CSV DATA -LOADING DATA -VISUALIZATION	2 HRS
SUPERVISED LEARNING -WORKING WITH ERROR -STEPS INVOLVED -TYPES -PROS AND CONS	2 HRS
CLASSIFICATION ALGORITHM -NAIVE BAYES -SVM ALGORITHM -DECISION TREE	10 HRS
UNSUPERVISED LEARNING -WORKING OF SUPERVISED LEARNING -STEPS INVOLVED -TYPES -PROS AND CONS	2 HRS
CLUSTERING ALGORITHMS -K-MEANS -KNN -DBSCAN	10 HRS
DATASET EXPOSURE	2 HRS
FEATURE EXTRACTION TECHNIQUES	4 HRS
DIMENSION REDUCTION	4 HRS
PRACTICAL- EXPOSURE TO SCKIT-LEARN	6 HRS
CONFUSION MATRIX -PRECISION -RECALL -F1	2 HRS
MACHINE LEARNING WITH NLP	10 HRS

[APPLICATION]	
INTRODUCTION TO PYTHON -PYTHON INSTALLATION AND ENVIRONMENT CREATION	2 HRS
PYTHON FRESHER -TYPE HIERARCHY -MULTILINE STATEMENTS AND STRINGS -VARIABLES -CONDITIONALS -FUNCTIONS -LOOP	4 HRS
VARIABLE AND MEMORY	4 HRS
NUMERIC TYPES	4 HRS
FUNCTION PARAMETERS	6 HRS
FIRST CLASS FUNCTIONS	4 HRS
TUPLES	2 HRS
MODULES, PACKAGES AND NAMESPACES	4 HRS
PROJECT	10 HRS
Soft Skills: <ul style="list-style-type: none"> • Verbal/ Non-verbal communication • Interview skills • Professional/social etiquettes • Professional correspondence/ English 	