

Training Course Outlines:

Machine Learning

Course Title:	Machine Learning	
Duration:	5 Days	
Timings:	9:00 am to 5:00 pm (UTC +5 / Pakistan Standard Time)	
No. of Students:	25 students per batch	
Pre-requisites:	Fundamentals of Information Technology and Computer Sciences	
Mode of Training:	<ol style="list-style-type: none"> 1 CORVIT Campuses in Lahore, Karachi & Islamabad 2 Online (if required) 	
Language:	<ol style="list-style-type: none"> 1 Training will be delivered in Urdu & English (optional) language 2 Training martial will be provided in English language 	
Training Basic Methodology:	<ol style="list-style-type: none"> 1. Theoretical knowledge 2. Lab work 3. Individual Assignments 4. Group Assignments 5. Assessments 6. Certification Preparation (where applicable) 	
Training Martial:	Soft copy (pdf format) of training martial will provide to all students.	
Training Content:	Day 1:	<ol style="list-style-type: none"> 1 Machine Learning Introduction 2 Applications of Machine Learning 3 Math Review 4 Data Analysis – NumPy, Pandas 5 Data Visualization – Matplotlib, Seaborn, Plotly
	Day 2:	<ol style="list-style-type: none"> 1 Machine Learning Algorithms 2 Regression Algorithms <ol style="list-style-type: none"> 2.1 Simple Linear Regression 2.2 Multiple Linear Regression 2.3 Polynomial Regression

		<ul style="list-style-type: none"> 2.4 Support Vector Regression (SVR) 2.5 Decision Tree Regression 2.6 Random Forest Regression 3 Evaluating Machine Learning Regression Models Performance
	Day 3:	<ul style="list-style-type: none"> 1 Classification Algorithms <ul style="list-style-type: none"> 1.1 Logistic Regression 1.2 K-Nearest Neighbors (KNN) 1.3 Support Vector Machine (SVM) 1.4 Naïve Bayes 1.5 Decision Tree Classification 1.6 Random Forest Classification 2 Evaluating Machine Learning Classification Models Performance 3 Clustering <ul style="list-style-type: none"> 3.1 K-Means Clustering 3.2 Hierarchical Clustering
	Day 4:	<ul style="list-style-type: none"> 1 Deep Learning Introduction 2 Artificial Neural Networks (ANNs) 3 Convolutional Neural Networks (CNNs) 4 Recurrent Neural Networks (RNNs) 5 LSTM
	Day 5:	<ul style="list-style-type: none"> 1 Machine Learning Specialization 2 Computer Vision 3 Natural Language Processing 4 Complete Project and Deployment

