

Machine Learning with Python

Modules	Content
Module - 1	<p>Introduction to Machine Learning</p> <ul style="list-style-type: none"> • What is Machine Learning • Use cases of Machine Learning • Types of Data • Role of Machine Learning Engineer • Different types of Machine Learning <p>Environment Setup of anaconda</p> <p>Introduction to python programming</p> <ul style="list-style-type: none"> • Python Data Structures • Python Programming Fundamentals • Conditions and Branching • Loops • Functions • Python Packages • Overview of OOP Terminology
Module - 2	<p>Python for Data Science</p> <ul style="list-style-type: none"> • Working with Numpy • Working with Pandas • Introduction to Data Visualization • Introduction to Matplotlib and Seaborn • Basic Plotting with Matplotlib and Seaborn • Working with Scikit-Learn
Module - 3	<p>Data Wrangling Techniques</p> <ul style="list-style-type: none"> • Introduction to Data preprocessing • Importing the Dataset • Handling Missing data • Working with categorical Data • Splitting the data in to Train and Test set • Feature Scaling
Module - 4	<p>Introduction to Supervised Machine Learning</p> <p>Introduction to Regression Algorithms</p> <ul style="list-style-type: none"> • Linear Regression • Multiple Linear Regression • Polynomial Regression

	<ul style="list-style-type: none"> • Decision Tree
Module - 5	<p>Introduction to Classification algorithms</p> <ul style="list-style-type: none"> • Logistic Regression • K-Nearest Neighboring • Support Vector Machine • Naive-Bayes • Decision Tree Classification • Random Forest Classification <p>Model Evaluation for classification and regression problems</p>
Module -6	<p>Unsupervised Learning</p> <ul style="list-style-type: none"> • K-Means Clustering
Module - 7	<p>Introduction to different modes of Deployments</p> <ul style="list-style-type: none"> • Working with the Flask framework • Building an application with Flask Framework • Integrating Machine learning model with Web Application • Introduction to IBM Python Flask APP • Deploying Python Flask application on IBM Python
Module - 8	<p>Introduction to IBM Cloud Services</p> <ul style="list-style-type: none"> • Introduction to IBM Cloud • Introduction to Watson Studio • Building Machine learning model in Watson Studio • Deploying Machine Learning Models as web services
Module - 9	<p>Introduction to Auto AI</p> <ul style="list-style-type: none"> • Building a Machine Learning Model Using Auto AI • Introduction to IBM Node-red • Integrating Machine Learning model to IBM Node-red • Building Web Application