





Applied Data Science

Externship Program Course Content
Approved by AICTE







Start Date: 28 June 2021

Timings: 5:30 - 7:30 PM

Duration: 30 Days (3 Weeks Live Sessions+1 Week Project Development)

Program Benefits:

- √ 40 Hrs. Live Instructor-Led Training
- √ 40 Hrs. Project Development
- ✓ Dedicated Mentor Support
- √ 1 Guided Project
- ✓ Project Completion Certificate from IBM
- ✓ Externship Completion Certificate from SmartInternz

Course Content

Modules	Content
Module - 1	Introduction to Machine Learning
	 What is Machine Learning Use cases of Machine Learning Types of Data Role of Machine Learning Engineer Different types of Machine Learning
	 Environment Setup of anaconda Introduction to python programming Python Data Structures Python Programming Fundamentals Conditions and Branching Loops Functions Python Packages Overview of OOP Terminology







Module - 2	Python for Data Science
	 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	 Data Wrangling Techniques 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	Introduction to Supervised Machine Learning Introduction to Regression Algorithms • Linear Regression • Multiple Linear Regression • Polynomial Regression • Decision Tree
Module - 5	Introduction to Classification algorithms
Module -6	K-Means Clustering







Module - 7	Introduction to different modes of Deployments
	 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	Introduction to IBM Cloud Services
	Introduction to IBM Cloud
	 Introduction to Watson Studio
	 Building Machine learning model in Watson Studio
	 Deploying Machine Learning Models as web services
Module - 9	Introduction to Auto Al
	 Building a Machine Learning Model Using Auto Al
	Introduction to IBM Node-red
	 Integrating Machine Learning model to IBM Node-red
	Building Web Application