





Training Content

Day	Module	Topics	Use Case	Course/Badge
Day-1	Introduction to Data Science, Data Analytics , Machine Learning & Cloud Computing	<ul style="list-style-type: none"> • What is Data Science? • What is Data Analytics? • What is Machine Learning? • Types of Machine Learning • Use Cases of Machine Learning • Role of Data Scientist / Data Analyst • Introduction to IBM Cloud • What is Cloud • Advantages of Cloud • Types of Cloud • Understand IBM Cloud Services 		<p>Improving Healthcare: The Role of Cloud Computing:- https://www.ibm.com/academic/badges/improving-healthcare-the-role-of-cloud-computing</p> 
Day-2	Python For Data Science	<ul style="list-style-type: none"> • Python Packages • Working with Numpy • Working with Pandas • Introduction to Data Visualization • Introduction to Matplotlib and Seaborn • Basic Plotting with Matplotlib and Seaborn 	Perform Data Visualization on Restaurant Tips data using Seaborn	<p>Getting Started with Enterprise Data Science:- https://www.ibm.com/academic/badges/getting-started-with-enterprise-data-science</p> 
Day-3	Data Wrangling Techniques & Introduction to Supervised Learning (Regression)	<ul style="list-style-type: none"> • Introduction to Data pre-processing • Introduction to Regression • Linear Regression • Multiple Linear Regression • Polynomial Regression 	<p>Case Study:- 1. Predicting Salary of an employee based on Years of experience using Simple Linear Regression</p> <p>2. Predicting Profitability of a Start-up using Multi Linear Regression</p> <p>3. Predicting Salary of an employee based on Designation using Polynomial Regression</p>	<p>Applied Data Science with Python: https://cognitiveclass.ai/learn/data-science-with-python</p> 

Day-4	Introduction to Supervised Learning (Classification) & Unsupervised Learning (K-Means)	<ul style="list-style-type: none"> • Introduction to Classification • Logistic Regression • Decision Tree Classification • Random Forest Classification • Introduction to Unsupervised Learning • K-Means Clustering 	Case Study:- Bike Buyer Predictor	The Role of Data Analytics and Data Science:- https://www.ibm.com/academic/badges/improving-healthcare-the-role-of-data-analytics-and-data-science 
Day-5	Auto AI, Node-Red & Watson Studio	<ul style="list-style-type: none"> • Explore Various services in Watson Studio • Explore Watson Machine Learning Service • Develop a Machine Learning Model using Auto AI • Deploy Machine Learning Model as a Web Service using Node-Red 	Case Study:- Build Insurance Premium Predictor using AutoAI	
Day-6	Introduction to Data Analytics	<ul style="list-style-type: none"> • Introduction to Data Analytics. • Types of Data Analytics. • Introduction to Cognos Analytics platform. • Exploratory Data Analysis with Cognos Analytics Dashboard. • Building Cognos Analytics Dashboard 	Case Study: Building Analytics tool for E-Commerce Business.	

Tools & Services	<ul style="list-style-type: none"> • IBM Cloud Platform • IBM Watson Studio • Node-Red • Language Translator • IBM Watson Machine Learning • IBM Watson Assistant • Flask Web Framework • Jupyter Notebook
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