

## Training Content

Module	Program Content	Duration
Day-1	<b>Introduction to Data Science</b> <b>Applications of Data Science</b> <b>Data Science Methodology</b> <ul style="list-style-type: none"> <li>- Business Understanding</li> <li>- Analytical Approach</li> <li>- Data Requirements</li> <li>- Data Collection</li> <li>- Data Understanding</li> <li>- Data Preparation</li> <li>- Data Modelling</li> <li>- Model Evaluation</li> </ul> <b>Introduction to IBM and Watson Services</b> <ul style="list-style-type: none"> <li>- Introduction to IBM Cloud</li> <li>- Watson Services</li> </ul> <b>Environment Setup</b>	2.5 Hrs.
Day-2	<b>Data Wrangling</b> <ul style="list-style-type: none"> <li>- Acquire the dataset</li> <li>- Import all the crucial libraries</li> <li>- Import the dataset</li> <li>- Identifying and handling the missing values</li> <li>- Encoding the categorical data</li> <li>- Handling the Outliers</li> <li>- Handling Inconsistent Data</li> <li>- Splitting the dataset</li> <li>- Feature scaling</li> </ul> Lab:1. Set-up IBM Watson Studio 2. Data Pre-processing with Titanic Dataset	2.5 Hrs.
Day-3	<b>IBM Cognos Analytics</b> <ul style="list-style-type: none"> <li>- Introduction to Cognos Analytics</li> <li>- Business Intelligence</li> <li>- Features, Components and types of Cognos</li> </ul> <b>Buiding Dashboard with Cognos</b> <ul style="list-style-type: none"> <li>- Introduction to Dashboard</li> <li>- Different tyoes of visualization</li> <li>- Different Operations in IBM Cognos</li> </ul> Lab: Covid-19 Vaccination Dashboard using IBM Cognos Analytics	2.5 Hrs.
Day-4	<b>Predictive Analytics and SPSS Modeler</b> <ul style="list-style-type: none"> <li>- Accessing data</li> <li>- Manipulating data</li> <li>- Analyzing data</li> <li>- Classifier Model using SPSS Modeller</li> <li>- Regression Model using SPSS Modeller</li> </ul> Lab: Customer Churn Prediction Modeling	2.5 Hrs.

**Prerequisites:**

1. Laptops / Computer with Minimum 8GBRAM
2. IBM CloudAccount
3. Good InternetFacility
4. Knowledge on fundamentals of python programming