**Data visualization and dashboards with excel and cognos**

**Module 1: Creating charts**

* The importance of charts and how they are able to shape our data.
* How to use visualizations to provide meaningful information.
* How to use Excel to create line, pie, and bar charts.
* About Excel pivot tables in creating area and column charts using the PivotChart feature.
* How to use a pivot table or pivot chart to filter data and how to expand and collapse data levels.

**Module 2**

**2.1 Creating advanced chart**

* How to create treemaps, scatter charts, and histograms in Excel.
* About the different charts available in Excel, and how each one is different in displaying data.
* How to create filled map charts and sparklines in Excel.

**2.2 Creating dashboards using spreadsheets**

* The role of dashboarding and why it is an important skill as a data analyst.
* How to setup and configure a simple dashboard in Excel.
* The importance of dashboards in telling a data-driven story.

**Module 3**

**3.1 Getting started with IBM cognos analystic**

* The fundamentals of the Cognos Analytics application.
* How to sign up for a trial version of Cognos Analytics.
* How to navigate around the Cognos Analytics user interface.

**3.2 Creating dashboard using IBM cognos analytics**

* How to use Cognos Analytics to create a simple dashboard.
* About the value of Cognos Analytics and its advanced capabilities, such as creating calculations and leveraging navigation paths.

**3.3 Using google locker studio for creating visualizations**

* The fundamentals of the Looker Studio application.
* How to navigate around the Looker Studio user interface.
* How to create reports in Looker Studio.
* How to connect to data sources in Looker Studio.
* How to create dashboards in Looker Studio.