



Data Analyst

Instructor(s): Carolina Softech, Timothy Stephen

Class Delivery: In person / Online

Course Duration: 12 weeks

Start and End Date: August 22 – November 14, 2022

Course Overview:

Data Analyst is a process of inspecting, cleaning, transforming, and modeling data to discover useful information and support decision making to achieve business goals. There are various data analysis qualitative and quantitative methods and analytical or statistical tools used to extract the useful information and translate them into insights to make better business decisions, most of which are covered in this program.

Course Summary:

Course 1- Introduction to Data Analytics

Data Analytics for beginners' course will give you insights into how to apply data and analytics principles in your business. Learning analytics, data visualization, and data science methodologies through this course will make you capable of driving better business decisions and ROI.

Course 2- Data Analytics with Excel

Course includes Microsoft® Excel skills, also includes training on Power BI. These two commonly used tools.

Course 3- Programming Basics and Data Analytics with Python

Learn how to perform Data Analytics with Python using multi-dimensional arrays in NumPy, manipulate Data Frames in pandas. This Data Analytics course will take you from the basics of Python to exploring many different types of data. You will learn how to prepare data for analysis, perform simple statistical analyses, create meaningful data visualizations, predict future trends from data, and more.

Course 4 - Power BI

Power BI is a world-wide utilized data visualization, reporting, and business intelligence tool. This course trains you to use the tool effectively for preparing data, creating interactive dashboards, adding different dimensions, and drilling into outliers.

Course 5

Introduction to SQL

Working with Queries (DDL, DML, DQL)

Aggregate Functions
 Joins and Set Operations
 Implementation of Data integrity
 Working with Constraints
 Implementing Views
 Working with Indexes
 Working with Stored Procedures and Functions

Projects

Web Scraping Projects to extract data from Websites
 Exploratory Data Analysis Projects
 Data Visualization Project

Languages SQL
 Languages Python
 Tools Power BI, Excel
 Concepts Data reprocessing
 Concepts Data Modeling
 Concepts Data sets
 Concepts Statistics – Basics
 Concepts Deployment
 Concepts BA Concepts

Course Schedule		
<u>Week</u>	<u>Days</u>	<u>Time / In person / online</u>
Week 1 – 12	Monday / Thursday	In person: 6:30 -8:30 pm
Week 1 - 12	Tuesday	Online: 6:30 – 9:00 pm

Workshops	
Note: Dates on Workshops are estimated and are subject to change.	
<u>Week</u>	<u>Subject</u>
Week 7 Saturday (8:30am - 12:30pm (4hrs)	Agile Workshop (In Person)
Week 4 Wednesday (2hrs)	SDLC Workshop (Online)
Week 5 or 6 Tuesday (2hrs)	Project Initiation (Online)

Additional Information

This is an interactive course. Students will learn by doing and also learn from each other as well as the instructor, text, guest lecturers and weekly presentations