



Innovation Centre for Education

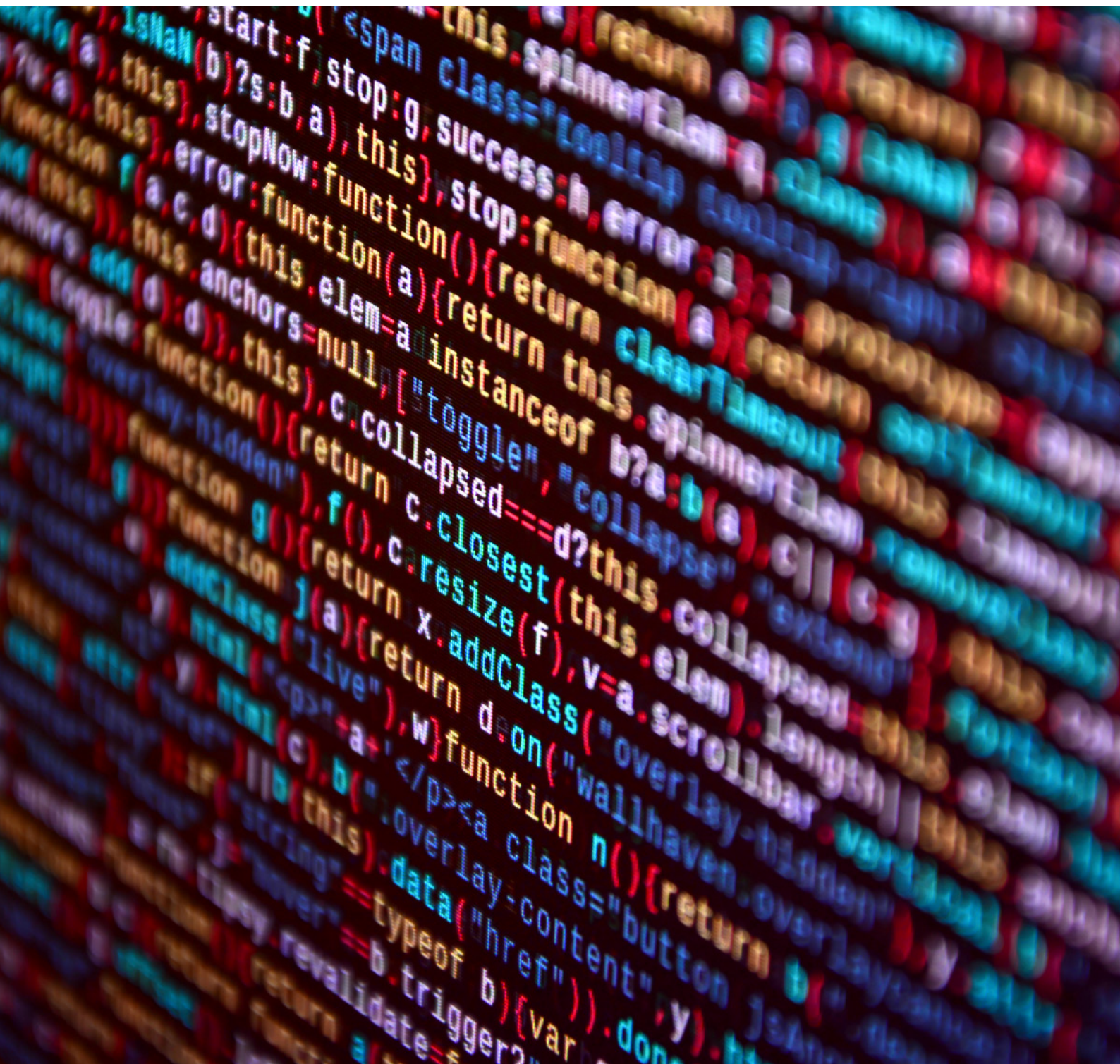
# DIGITAL LEARNING PROGRAM

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## INFO INSIGHTS USING PYTHON

Duration of Course: 240 hours

Pre-requisite: Nil



**80% OF ACADEMIC LEADERS AGREE THAT TO IMPROVE THE EFFECTIVENESS OF HIGHER EDUCATION AND INCREASE THE EMPLOYABILITY OF STUDENTS, THE ONLY WAY FORWARD IS THE COLLABORATION OF "INDUSTRY'S BEST & ACADEMICS' BEST"**

## **INFO INSIGHTS USING PYTHON**

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### **COURSE DESCRIPTION:**

Forbes states in one of its articles that information is growing faster than ever before and in 2021, about 2+ megabytes of new information would be created every second for every human being on the planet!

Info Insights is the game of examining data sets from this humongous flow of data and drawing educated conclusions using various analytical algorithms. Its popularity in the business arena has skyrocketed in the past few years. This course 'Info Insights using Python' is your best guide to bring out the special information Diagnostic expert' in you.

With a carefully designed curriculum revolving around logic development, database concepts, Python programming and its implementations using various libraries, building the analysis using powerful web scraping techniques, analyse the information spread using Exploratory data analysis, understand the information network using powerful machine learning algorithms and building your initial experience in information insights and present the result of analysis using the latest presentation method of storytelling, this course is the stage for a powerful learning experience. The aim is to help you become the information insight engineer you wish to become.

We know it takes a lot of practice to perfect your craft as an insight expert. So, we give you a solid learning platform that puts you through tons of simple, yet rigorous practice modules that help strengthen your skills. Undoubtedly, this course is fine-tuned to churn out ace information analysers. Using tried and tested methods for accelerated learning; it puts you on the fast track to becoming one.

## COURSE HIGHLIGHTS:

- Understand the concepts related to RDBMS and Learn to write effective queries using SQL
- Learn the core concepts of python programming and the effective use of various libraries
- Implement data processing using Python-Pandas library. Perform simple statistical analysis, data storytelling, and predict future trends using analytical algorithms implemented in Python Pandas.
- Understand the inner details of web scraping techniques, Exploratory data analysis and Machine learning algorithms for analysing the information network
- Translate the data and resultant analysis into graphical visuals and describe them deeply using data story telling techniques

## COURSE OUTCOMES:

Finishing this course will shape you into a first-cut information insight engineer capable of information insight activities such as web scraping and analysing the information spread. It will make you deployment-ready for primary analysis on various domains and on large data sets. You will also be able to realize data and resultant analysis as graphs and data stories.



## NEXT GEN SMART ONLINE PLATFORM:

Let's look at the features which makes it a really Next Gen SMART online platform

- World class course content and course delivery of IBM Digital Learning Program.
- Enables activity-based adaptive learning and assessments with Auto Evaluation and grading of Programming Exercises
- Facilitates adoption of Continuous Evaluation Based Learning
- The Learning content is displayed in multiple formats, with capability for hosting remote online classes conducted with two way streaming of live video / audio
- Auto triggering of SMS and Emails to learners and other stakeholders
- Analytics, Reports and Visual Dashboards available for Actionable Insights appropriate for every stakeholder

## KEY FEATURES OF THE IBM DIGITAL LEARNING PROGRAM





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Join hands with  
**IBM** Innovation Centre  
for Education -  
**TODAY!**



Business Partner