NSE Academy

Grant Thornton

LIVE

Batch 2

Data Analytics & Business Intelligence Professional

A Joint Program Offered by
NSE Academy & Grant Thornton Bharat

No Programming Background Required

- Virtual & Interactive Sessions
- 4-Month/ 16 Weeks
- 20+ Industry Projects & Cases
- 200+ Hours of Learning

Learn Industry Recognized Tools & Applications

Visit Program Website

PROGRAM OUTLOOK

The program is developed by NSE Academy & Grant Thornton to equip professionals with the sought-after skill set to overcome the challenges of analyzing large data sets and deciphering meaningful business insights. It begins with foundational topics like basic & advanced Statistics and MS Excel before moving to the advanced modules on Python, Big Data & SQL etc. The training methodologies and used cases ensure that the training output is efficient and produces relevant learnings.

- Get hands-on with the most in-demand data analytics and visualization tools
- Receive Personalized Support from your Program Manager, during and after sessions
- Attend live sessions and access session recordings for 2 years, anytime, anywhere
- Get certified by leading global bodies - NSE Academy and GT Academy
- The program includes complementary learning courses from DeakinCO, Deakin University (Australia) and Grant Thornton Bharat

TOOLS & LANGUAGES

Descriptive Statistics	MS Excel	SQL	Tableau
Power BI	Python	Pandas	NumPy
Matplotlib	R Programming	Machine Learning	Predictive Modeling

PROGRAM BENEFITS

Industry Used Tools & Applications
Get hands-on with most in-demand data analytics and visualization tools & application.

Capstone & Industry Projects
Apply knowledge and acquired skills with 20+ projects/ cases from different industries - BFSI, E-Commerce, & Retail etc. Complete the capstone project under the guidance of program coaches.

Experiential Learning
Transform through hands-on tools, applications, projects, & case studies.

NSE Knowledge Hub
The program will be delivered through NSE Knowledge Hub, a complete AI Powered Learning Experience Platform (LXP).

Industry Grade Curriculum
The learning modules combine academic elegance and business relevance to equip participants apply their learnings to make effective business decisions.

Session Recordings & Support
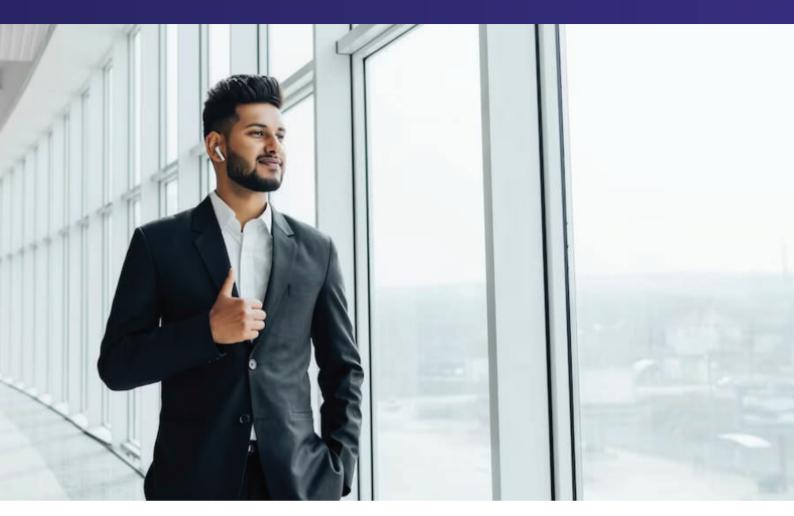Access session recordings for 2 years anytime/ anywhere and receive personalized support.

Upskill for Better Pay-Scale
With a valuable certification that includes diverse Data Analytics skills, you can stand out in the job market to earn up to INR 10 LPA.
Source https://www.payscale.com/research/IN/Job=Data_Analyst/Salary

Did You Know ?
Business functions like sales, marketing, operations, finance, human resources, supply chain, etc. generate a lot of raw data that should be analyzed to generate business insights to take strategic decisions. Therefore, organizations hire professionally trained Data Analysts who work closely with the senior leadership team.

IDEAL FOR

01 **Early-to Mid Career Professionals** looking to transition to a data analytics role

02 **Tech professionals** looking to transition to a Managerial role to effectively manage ML & AI projects

03 **Consultants** who are looking to build their expertise in Data Science, ML & AI for better client management

04 **Business Heads** wanting to leverage the power of Data Analytics tools to make data-based business decisions

05 **Entrepreneurs and business leaders** who want to learn data analysis for better business performance

06 **Recent Graduates & Final Year Students** aspiring for a career in Business Analytics

PROGRAM STRUCTURE

The program begins with self-paced **Foundation Courses** on Advanced MS Excel & Problem-Solving Methodologies to build foundation for the **Core Modules** Python, Big Data & SQL etc. Participants will access course material through the NSE Knowledge Hub platform.

FOUNDATION COURSES

Course 1. **Advance Excel (includes MS 365)**

Grant Thornton

Grant Thornton and NSE Academy

In this course, you will learn to...

1. Simplify complex spreadsheets
2. Streamline operational work by using advanced formulas and templates
3. Use advanced functions to improve Productivity
4. Enhance spreadsheets by applying visual elements, such as charts and graphics

Course 2. **Problem Solving Methodologies**

DEAKINCo. | **DEAKIN UNIVERSITY**

Deakin Co, Australia and NSE Academy

There are three modules in this course...

1. Module 1: Problem-solving approaches
2. Module 2: Case studies
3. Module 3: Case study application

Course 3. **Data Analytics using R**

Grant Thornton

Grant Thornton and NSE Academy

In this course, you will learn to...

1. Introduction and Programming
2. Statistics and Visualization
3. Advance Methods

CORE MODULES

Module 1. Statistics using MS Excel

1. Basic Statistics
2. Advanced Statistics
3. Data Analysis In Excel -I: Pivots and LookUps - Hands On
3. Data Analysis In Excel -II: Building & Using Macros for Analytics - Hands On

Module 2. SQL

1. SQL Programming Essential, Database Design and Creation
2. MySQL Workbench and Querying
3. Window Functions - Hands On
4. Query Optimization - Hands On

Module 3. Big Data Essentials

1. Big Data and Data Analytics
2. Big Data Storage and Processing - Hadoop
3. Cloud Computing
4. Data Modelling Methods and Components
5. Problem Solving Using Data Modelling

Module 4. Data Visualization using Tableau & Power BI

1. Introduction to Tableau & Power BI
2. Data Modelling
3. Calculations
4. Visualizations
5. Automation
6. Distribution

Module 5. Data Analysis using Python

1. Python Programming Essentials I - Variables, Expressions, and Data Structures, Conditionals, Iterations, Strings, Exceptions
2. Introduction to Statistics & Probability, Probability Distributions
3. Brief Introduction to Class / Object Oriented Programming
4. Python Programming Essentials II - Functions and Control Statements
5. Python Libraries for Data Science - Pandas
6. Python Libraries for Data Science - NumPy, other Modules like datatime, Matplotlib

Module 6. Machine Learning

1. Machine Learning Types
2. Introduction to key Machine Learning Models
3. Leaning the Machine Learning Life Cycle
4. Building Machine Learning Models Python

PROGRAM OUTCOMES

Data Preparation

Structuring data, sourcing the data sets, managing the planning, design and execution of analysis, and helping communicate, interpret and implement the results.

Data Driven Strategy

Generate meaningful business insights that define strategy, processes and key performance indicators according to industry best practices to monitor the overall performance against the competitors.

Customer Analytics

Understanding your customer better through segmentation, identification and targeting to support strategic marketing campaigns.

Process Design

Use data collection, analyzing, & modeling techniques to improve the efficiency, effectiveness, and quality of the business functions that can help in optimizing resources, enhancing innovation, and creating value for the organization.
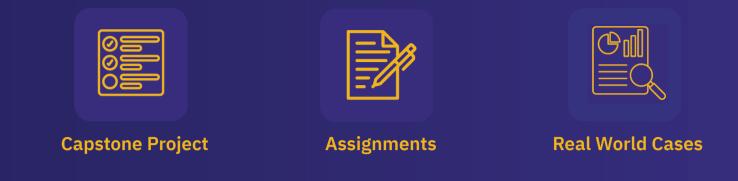
Live Dashboards

Gaining access to real-time, actionable customer and market information to make informed and multi-layered business decisions.
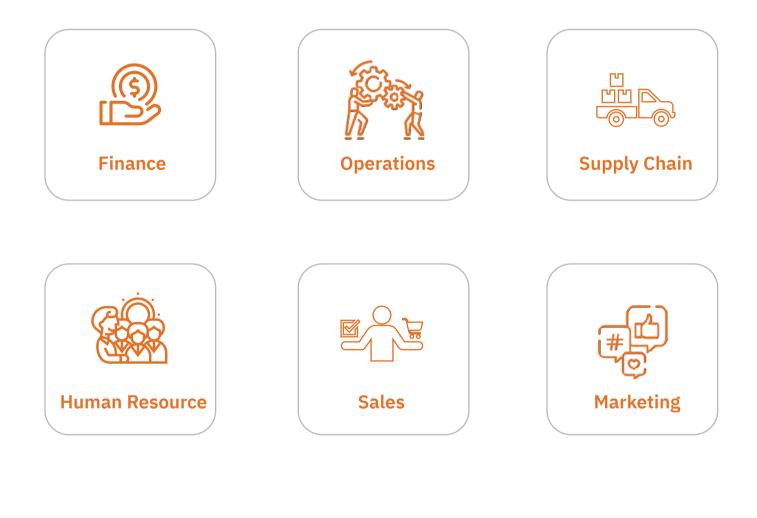
Risk Analytics

Identify, quantify, and prevent potential financial issues by using techniques such as predictive models, user behavior analysis, and audit logs.

LEARNING PEDAGOGY

Capstone Project

Assignments

Real World Cases

Cases & Projects covers the following functions:

Finance

Operations

Supply Chain

Human Resource

Sales

Marketing

KEY CASES & PROJECTS

Anti Money Laundering Financial Intelligence Analysis

This case explores how to use analytical tool especially for transaction monitoring by leveraging data and intelligence from various sources.

Simplified Fraud Detection

This case shows how to use SQL pattern matching techniques to identify and prevent fraudulent events within unstructured data, such as JSON files.

Customer Segmentation to Define Customer Risk

This project demonstrates how to use customer segmentation for group customers based on financial risk and apply appropriate monitoring and mitigation strategies for each segment.

Prevent Loan Defaults

This business case explores how to prevent loan defaults by assessing the creditworthiness of borrowers, monitoring their repayment behavior, and taking appropriate actions to recover the loan amount or avoid foreclosure.

Data Bricks HR Management

This case describes how to manage human resources across different regions and functions, using various tools and strategies to attract, retain, and develop its talent.

Booking Summary of Holiday Resort Chain

This business case analyzes the booking summary of a leading holiday resort chain in India and abroad such as understand the customer preferences, occupancy rates, seasonality trends, and revenue patterns across different locations and time periods.

IPL Score Predictor and Win Prediction

This case presents a Python model thatpredicts the score and the winner of an IPL match based on various features like teams, venue, toss, players, etc. using historical data from previous IPL seasons.

Predictive Analysis of Attrition Rate of a company

This business case proposes a predictive analysis of the attrition rate of a company using machine learning techniques to identify the factors that influence employee turnover and to classify employees into high-risk or low-risk groups based on the likelihood of their leaving the company.

PROGRAM ADVISORY COMMITTEE

Pranav Kaushik is currently a Partner and Client Advisor with Grant Thornton. He leads Digital Transformation services at GTL.

He specializes in helping clients leverage high-potential emerging technologies, such as Artificial Intelligence, Machine Learning, Robotics Process Automation, Chatbots, Blockchain, and open-source web technologies to solve complex business problems.

He is a regular speaker at several industry events and some of the projects that he has delivered are industry-leading and globally awarded. Pranav is an MBA from Lancaster University Management School, UK, who has earned certification from Stanford University in Machine Learning.

PRANAV KAUSHIK
PARTNER & CLIENT ADVISOR
GRANT THORNTON

Dr. Deepak Singh completed his doctorate from the Indian Institute of Technology, Kanpur, and has over 13 years of experience in academics and the IT industry.

His core areas of expertise include real-life applications of artificial intelligence and IoT-based systems. Apart from teaching in prominent institutions in Lucknow, he is also a consultant for several IT firms. He has also advised the UP government on IT implementation in Public Libraries.

He has played a key role in several AI-based research projects, which include Digital Transformation of several prominent educational institutes of Lucknow, two projects funded by the Government of India, and several other projects related to AI-ML implementation. He has trained several senior-level executives of IT companies across the world such as Singapore, Japan, and China.

DR. DEEPAK SINGH
INDUSTRY CONSULTANT
GRANT THORNTON

Praveen D'sa is a Microsoft Certified Data Analyst with 17+ years of experience in Information Technology. Praveen has in-depth experience in evaluating and implementing Data & BI tools on multiple cloud platforms.

He has delivered 50+ insightful executive-level dashboards for Sales, Finance and Human Resources.

Praveen has a very rich background in corporate training on Power BI, Tableau, Data Lake & Data Warehousing. He holds an MCA degree from Mangalore University.

PRAVEEN D'SA
INDUSTRY CONSULTANT
GRANT THORNTON

ANURAG D UPADHYAY
INDUSTRY CONSULTANT
GRANT THORNTON

Anurag Upadhyay is an accomplished Digital Transformation Manager with over 12 years of extensive experience in Strategy, Consulting, and Implementation with renowned top IT Implementation and Consulting organizations His expertise spans across diverse industries, such as Banking, Business Process Services (BPS), Government, and Healthcare. Throughout his career.

Anurag has collaborated with prestigious clients, leading the way in Intelligent Automation Business Analysis, RPA Solution Designing, and Pre-Sales of business processes. He has effectively constructed RPA Automation Road-maps and skillfully overseen the implementation of successful projects, resulting in remarkable improvements and profound impacts.

Avinash Chowdary is a Google Certified Data Analyst, carrying 11+ years of experience in Data Science and Engineering. He has in-depth experience in evaluating and implementing Data & BI tools and ML models on multiple cloud platforms.

Avinash has delivered 100+ insightful executive-level dashboards for Media, Finance, Ecommerce and Human Resources. He has vast experience in training corporate clients and university students in Power BI, Tableau, Data Mart & Data Warehousing.

He is supporting people to understand Business Intelligence, Data Analytics and Data Warehousing concepts to drive the business dynamics towards the overall growth of the organization. He holds an M Tech degree from BITS Pilani.

AVINASH CHOWDARY
INDUSTRY CONSULTANT
GRANT THORNTON

MOHD RAZA
INDUSTRY CONSULTANT
GRANT THORNTON

Mohd Raza is an experienced professional in various domains, showcasing his proficiency in Python, SQL, Power BI, Machine Learning, Deep Learning, and Big Data.

He has conducted sessions on Data Analytics, Python Programming, SQL, Relational Database Design, Machine Learning, Power BI, Big Data Analytics etc.

Raza has completed projects involving Database Design and Development, Data Reporting and Analysis, and Machine Learning. With his interdisciplinary skills and extensive experience, Raza is equipped to contribute to data-driven solutions and deliver impactful results. He holds a Bachelor of Technology degree from Delhi Technological University (Formerly Delhi College of Engineering).

FEE INCLUSIONS

Access NSE Knowledge Hub Platform for TWO YEARS for

- Course Material
- Session Recordings

Powered By

NSE | Knowledge HUB
Academy

Program fee includes all three foundation courses at no cost

1. Advance Excel (includes MS 365)
2. Problem Solving Methodologies
3. Data Analytics using R

PROGRAM FEE:
RS. 82,000 + GST

REGISTER NOW

**Schedule a Personalized Consultation for
Early Bird Pricing, Corporate Nominations and Scholarship**

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Learning is more impactful when you join with your colleagues

ABOUT GRANT THORNTON BHARAT LLP

130 Countries

USD 5.45 bn Revenue

62,000 People

Grant Thornton Bharat (GT) is truly a global organization with more than 62,000 people in more than 130 countries. No matter, how big the organization or the international challenges you face, GT has the resources to match and provide solutions. The organization has member firms in over 130 countries worldwide. It is ranked one of the top six firms in 88 markets around the world and established in all major business centers and emerging markets. The organization serves India region with 13 offices in all major cities with more than 15,000 people.

ABOUT NSE ACADEMY

NSE Academy Ltd. is a wholly owned subsidiary of the National Stock Exchange of India Ltd. (NSEIL). NSE Academy enables the next generation of BFSI and FinTech professionals with industry-aligned skills through capacity-building programs and certification courses, powered by an online examination and certification system. The courses are well-researched and carefully crafted with inputs from industry professionals. NSE Academy works closely with reputed universities and institutions across India inbuilding a competent workforce for the future of BFSI and FinTech. NSE Academy also promotes financial education as an essential life skill among youngsters - a contribution towards financial inclusion and wellbeing.