Data Analysis Boot Camp

Duration: 2 Days Course Code: GK2397 Delivery Method: Virtual Learning

Overview:

Learn to communicate about data and insights to stakeholders who need to make quick business decisions to drive your organization forward.

This three-day course leverages straightforward business examples to explain practical techniques for understanding and reviewing data quality.
This course starts with an overview of data quality and data management, followed by foundational analysis and statistical techniques.
This data analysis training class is a lively blend of expert instruction combined with hands-on exercises so you can practice new skills and leave prepared to start performing practical analysis techniques. Every Data Analysis Boot Camp instructor is a veteran consultant and data guru who guides you through effective best practices and technologies for working with your data.
NB: Labs for this course are primarily in Microsoft Excel, however, students will get an opportunity to practice using R during some labs. Labs for this course can also be taught using the Python programming language for private team deliveries.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Professionals who benefit from this course include: Business Analyst and Systems Analyst Operations Researcher and Marketing Analyst Project Manager, Program Manager, Team Leader Data Modeler or Administrator Database Administrator IT Manager, Director, VP, Finance Manager, Operations Supervisor, Risk Assessment Manager Process Improvement Staff Executives exploring cost reduction and process improvement options Senior staff who make or recommend key business decisions

Objectives:

- In this class participants will learn how to:
- Identify opportunities, manage change and develop deep visibility into the organization
- Understand the terminology and jargon of analytics, business intelligence, and statistics
- Use a wealth of practical applications for applying data analysis capability
- Visualize both data and the results of analysis for straightforward graphical presentation to stakeholders
- Estimate more accurately while accounting for variance, error, and confidence intervals
- Create a valuable array of plots and charts to reveal hidden trends and patterns in data
- Differentiate between "signal" and "noise" in data
- Understand and leverage different distribution models, and how each applies in the real world
- Form and test hypotheses using multiple methods to define and interpret useful predictions
- Identify statistical inference and drawing conclusions about the population

Prerequisites:

Students attending this class should have a basic understanding of how data is currently used in their organization. They should also have strong Excel aptitude.

Testing and Certification

Follow-on-Courses:

No specific recommandation

Content:

Part 1: The Value and Challenges of Data-Driven Disruption

- Objectives and expectations
- Hurdles to becoming a data-driven organization
- Data empowerment
- Instilling data practices in the organization
- The CRISP-DM model of data projects
- What constitutes data-driven value
- Requirements gathering: How to approach it
- Kanban for data analysis
- Know your customers
- Stakeholder cheat sheets
- *EXERCISE: Data-driven project checklist*
- *LAB: Data analysis techniques: Aggregations*
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- Data in the real world
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Part 7: Data Visualization ; Reporting

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Part 2: Tying Data to Business Value

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Part 5: Thinking Critically About Your Analysis

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Part 8: Hands-On Introduction to R and R Studio

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