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Live - Cohort

DATA ANALYTICS

Using Advanced Excel & Power BI

Certificate on successful completion.



Starting 5th February 2024



30 Credit Hours



Two virtual classes each week

PROGRAM OVERVIEW

Data analytics is one of the most sought-after skills in the contemporary Big-Data world where organizations around the world are striving to make the best use of the available data ecosystem and make a shift toward data-based decision making. This course intends to give a hands-on experience to participants about the capabilities of MS Excel as a complete data analytics package (data sourcing, programming, and visualization) along with Power BI being a leading Business Intelligence tool to help them achieve:

- Automation in data sourcing, transformation, and business analytics reporting.
- Improved data analytics capabilities through advanced training on MS Excel visualization along with Power BI.
- Storytelling capabilities to build a clear narrative around their analytical efforts.
- Better decision-making capabilities for their organization.
- Ease of collaboration within the organization using tool such as MS Power BI.
- Real time analysis.

COURSE RESOURCE

- Power point slides for ready reference (hands outs)
- Raw Data files for training purposes
- Hand-on class projects with solutions
- Quizzes and Assignments
- Access to recorded lectures post-live class ON LMS.

WHO SHOULD ATTEND?

All professionals who are concerned with their business reporting requirements and rely heavily on MS Excel as their go-to tool and would like to take their game to the Next-Level using MS Excel itself and still be introduced to the advancement in the Analytics landscape will find this training course useful and may include:

- Working professionals from various field such as Finance, Supply Chain, Marketing, HR, Sales, Any Other Profession).
- Freelancers looking to develop analysis and visualization skills to improve their earning potential.
- Students willing to pursue Data Science as their field of study.

COURSE COVERAGE

1. Introduction To Power Excel and Business Intelligence

- Business Intelligence – What, Why and How?
- Business Intelligence – Function and Process?
- Available Tools and Power BI
- Power BI Ecosystem
- Power Excel vs Power BI
- Power Excel Workflow
- Power BI Workflow

2. Data Connectivity and Transformation

- Introduction to Power Query
- Types of Data Connections
- The Query Editor and Tools
- Data Loading Options
- Basic Table Transformations
- Text-Specific Tools
- Number-Specific Tools
- Date-Specific Tools
- Basic & Rolling Calendar Table
- Index Column
- Conditional Column
- Grouping and Aggregating Data
- Pivoting and Unpivoting Data
- Modifying Workbook Queries
- Merging and Appending Queries
- Data Source Settings
- Refreshing Queries
- Defining Data Categories
- Importing Models from Excel into Power BI
- Best Practices of Power Query

3. Data Modelling

- Introduction to Data Modelling in MS Excel and Power BI
- Data Modelling Interfaces
- Database Normalization
- Data Tables vs Lookup Tables
- Primary and Foreign Keys
- Relationship vs Merged Tables
- Creating Table Relationships

- Connecting Lookups to Lookups (Snow-Flake and Star Schemas)
- Managing and Editing Relationships
- Active vs Inactive Relationships
- Relationship Cardinality
- Cardinality Case Study: Many to Many Relationships
- Connecting Multiple Data Tables
- Importance of Filter Direction
- Hiding Fields from Client Tools
- Defining Hierarchies
- Best Practices of Data Modelling

4. Data Analysis through Power Pivot

- Introduction to Power Pivot
- How to Create a Power Pivot Table?
- Normal v/s Power Pivot
- No More Calculated Fields
- Calculated Columns
- DAX Measures (Implicit vs Explicit)
- Understanding Filter Context
- Calculated Columns vs Measures
- Best Practices of Power Pivot

5. Data Analysis Expressions for Power Pivot and Power BI

- DAX Syntax & Operators
- DAX –Function Categories
- Quick DAX Measures (Power BI)
- Basic Math and Stats Functions
- Important Count Functions
- Basic Logical Functions
- Switch and Switch (True)
- Text Functions
- Calculate Function (Mother of All Functions)
- Filter Function
- Filtering with Disconnected Slicers
- All Function
- Related Function
- Iterator ('X') Functions
- Basic Date & Time Functions
- Time Intelligence Formulas
- Best of DAX Practices

COURSE COVERAGE

6. Data Visualization Reports in Power BI

- Power BI Report View Interface
- Inserting Objects and Basic Charts
- Conditional Formatting
- Formatting & Filtering Options
- Matrix Visuals
- Date Slicers
- Cards & KPIs
- Text Cards
- Map and Tree Maps Visuals
- Line and Area Charts
- Trend Line and Forecasts
- Gauge Charts
- AI - Q&A and Key Influencer Visual
- Correlation vs Causation
- The Decomposition Tree Visual
- Editing Report Interactions
- Drill Through Filters
- Adding and Linking Bookmarks
- What If Parameters
- Managing and Viewing As Roles
- Importing Custom Visuals
- Desktop vs Phone Layout
- Publishing to Power BI Service
- Best Practices of Data Visualization

7. Data Visualization Reports in MS Excel (Advanced)

- Charts Elements, Layouts & Colors
- Changing Types and Adding Secondary Axis
- Custom Templates
- Bar and Column Charts
- Histogram and Pareto Charts
- Line Charts & Trendlines
- Area Charts
- viii. Excel Data Visualization in Action:
 - Custom Image Overlay Charts
 - Binary Values Highlighting Dates
 - Special Formula Combinations for Powerful Visualizations
 - Interaction with Graphs / Charts
 - Animating Changes over time
 - Building a Dynamic Dashboard
 - Value Based Dynamic Formatting
 - Dynamically Highlighting a Data Series
- Building a Custom Pacing Chart
- Designing a Custom Gauge Chart
- Visualizing Percentages Using Array Function
- Advanced Dashboard Design Tips using MS Excel





TRAINER'S PROFILE

JAWAD NAGDA

Finance Transformation Specialist | FP&A | XP&A |
v-CFO | Excel and Power BI Expert



Over 21+ years of experience as a Management Accountant and Data Analyst, Jawad consistently helps organizations unlock operational efficiencies and strategic growth. He has cultivated expertise in Accounting, Finance, Controlling, Audit, Planning, and Analysis. Jawad's forte lies in aiding corporations to achieve Finance Digital Transformation, Revenue Optimization, Cost Efficiencies, and Effective Capital Utilization.

Areas of proficiency include Strategic Planning, Pricing, Bidding, Financial Feasibilities, MIS, Data Analytics, Performance Reviews, Credit Control, Corporate Law, Taxation & Compliance, Risk Analysis, Internal Control & Audits, Financial Accounting and Reporting (IFRS), ERP Implementation, and Rationalization. He excels in Power Query, Power Pivot, DAX, Power BI, and tools like MS Excel, Tableau, Python, and SQL.

He is enthusiastic in learning new technologies and practical research. Learning directly from business teams, He understands business dynamics, enabling him to handle, inquire, and communicate digestible business stories using big data.

In the role of a data analytics trainer, he brings a wealth of experience. From inspiration to imparting knowledge, he is an adaptable individual ready to be a core player in any team focused on Data Analysis, Data Visualization, Business Intelligence, Predictive Analytics, and Automation. His commitment to ownership and accountability makes him an approachable professional, he is always ready to contribute to the success of any team setup.



PROGRAM DETAILS

- 3rd Batch is Starting 5th February 2024
- 30 Credit hours, 8 - 10 weeks long
- E-Learning – Live classes, 2 classes of 1 and a half hours per week.
- Classes will be conduct on weekends.
- 60% passing criterion.
- Quizzes & Assignments
- Recorded sessions available 24/7 on the LMS uploaded within 24 hours of the class.
- Online support during business hours is available.
- Weekly Progress report to HR where enrolled by Company.

REGISTRATION & CONTACT DETAILS

[Register Here](#)

For more details or customization of training program contact:

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