**Analytics with Excel – Dashboards and Data Visualization**

# SESSION DESCRIPTION

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| **SESSION TITLE** | **Excel Dashboards and Data Visualization** |
| **SESSION SUMMARY** | Knowing how to communicate data is now as important as knowing how to use Excel. While many classes teach how to make 3d effects in Excel, in this class, we’ll teach you why you shouldn’t.  In this session, we’ll lay a solid foundation for data visualization, and quickly review concepts like similarity and closure. We’ll explain why you should probably not use pie charts, and we’ll give attendees a set of principles to help them guide their own visualizations.  From there, we’ll dive deep into Excel, and learn how to create interactive visualizations that help solve the toughest data questions. We’ll create charts that are not included in Excel by using techniques that you might not have seen before.  Students will walk away with a strong knowledge of visualization concepts, as well as how to implement them to their fullest in Excel. |
| **BY THE END OF THIS SESSION YOU’LL UNDERSTAND…** | * Why certain visualizations do a better job communicating data than others * How to create interactive visualizations in minutes using Excel components and formulas * How to quickly build charts not native to Excel (like controls chart and moving averages) |
| **AND YOU’LL BE ABLE TO…** | * Build a chart to model any business problem * Create interactive visualizations that model multiple scenarios * Make better decision with data and communicate your results effectively |

SYLLABUS

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| **HOUR / MODULE** | **DESCRIPTION** |
| 1. **Introduction to Data Visualization** | Introduction:   * Lecture: Data Visualization Principles (30 min) * Lecture: Why you shouldn’t use pie charts (5 min) * Lecture: How to get better every day at data viz (20 min) |
|  | Break (5 min) |
| 1. **Interactive Data Visualizations p1** | Lecture: Principles of Design (5 min)  Excel Tools for Interactivity:   * Demo 2.1: Camera Tool (10 min) * Demo 2.2: Sparklines (15 min) * Demo 2.3: Form Controls (10 min) |
|  | Break (5 min) |
| 1. **Interactive Data Visualizations p2** | Lecture: Interactivity in Excel (5 min)   * Demo 3.1: Visualize processing improvements with interactivity (25 min) * Demo 3.2: Visualizing timeseries with drilldowns |
|  | Break (5 min) |
| 1. **Advanced Visualizations** | * Demo 4.1: Heatmaps (5 min) * Demo 4.2: Control Charts (25 min) * Demo 4.3: Moving Averages (25 min)   *Wrap up (5 min)* |