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Recent Analytics Presentations

MeasureCamp Cincinnati (Virtual) – Cincinnati, OH, June 27, 2020
Industrial Data Science: Exploratory Data Analysis of Actual Production Data

In this session we demonstrate Exploratory Data Analysis using actual, publicly available, process stream data. Topics covered will be EDA, predictive screening, outlier exploration, and multicollinearity. (Video recording and SAS JMP data table, with embedded scripts, are available on request.)

Lexington Tableau User Group (LexTUG) – Lexington, KY, March 5, 2020
Louisville Bicycle Crashes – lessons learned

In this presentation we'll start with some graphs and maps, generated using Tableau, then move on to a discussion of the details of visualization and why they are important. After that, we'll move on to correlations, cause and effect relationships, actionable findings, and the idea of successive studies. We'll also touch on goal setting, project planning, and secondary data. The entire discussion will, of course, use Tableau examples from this one study.

JMP Users Group – Lexington, KY, May 6, 2019
A Chemist Looks at the JMP Solubility Data Set

Data analysis is most fruitful when combining domain knowledge with analytical ability. In this presentation, I show how to extract useful, chemical insights using JMP platforms such as Subset, Graph Builder, and Edit Formula from homologous series within the Solubility data set.

MeasureCamp Cincinnati – Cincinnati, OH, April 27, 2019
How to Analyze Residential Real Estate Data

In this brief presentation, I show how to do a comparative analysis of residential real estate data for three cities using the techniques of visual exploratory data analysis.

JMP Discovery Summit – 2018 – Cary, NC, October 25, 2018 (ePoster Presentation)
Big Molecules Meet Big Data: Predicting Protein Tertiary Structure from Combinatorial Data

The experimental determination of protein structure is typically time consuming and relatively expensive. Hence, statistical methods for the prediction of some structural parameters of these proteins would be valuable. This poster discusses the prediction of one property, the Root Mean Square Deviation (RMSD) from some measured and calculated protein attributes using JMP 14.

SQL Saturday – Louisville 2018 – Louisville, KY, July 21, 2018
How to Do a Data Analysis

We'll show you how to do an exploratory data analysis with real, publically available data from Redfin, using JMP statistical analysis and visualization software. We'll start with concatenation and subsetting, move on to data integrity, then to visualization, exploratory data analysis, and simple linear regression. We'll make plenty of charts and graphs with some summary statistics thrown in for good measure. Moreover, we'll do it all in under one hour.

Code PaLOUsa 2018 Software Development Conference – Louisville, KY, March 29, 2018
An Analysis of Louisville Crashes Using Tableau

This project started at the Fourth Annual Hack for Change in Louisville Kentucky on August 4, 2016 as part of the Civic Data Alliance Hack for Change. In this presentation, we will examine the data using Tableau's bar charts and maps, review a previous report and show why a deeper analysis is necessary. Finally, we will make some recommendations for a continuation of the study.

Tableau Users Group Lexington - Lexington, Kentucky, April 13, 2017
Lessons Learned: Louisville Bicycle Crashes

This presentation reviewed a previous Louisville Bicycle Crashes study, but with a different focus. Since it would have attendees from state government and various non-profits from nearby Frankfurt, its focus was on how to combine the results with other public data to find insights that would be useful to city planners and transportation coordinators.

Louisville SQL Server and Power BI Users Group - Louisville, March 9, 2017
Visualization is not Analytics – when people get them confused, they are disappointed in the outcome

While clear and accurate representation of data is important, it is not the whole story. Visualization projects are often undertaken not only to understand what happened, but also to explain what caused it to happen. Moreover, with increasing frequency, visualizations are projected into the future to predict what will happen. This moves us away from simple visualization and into analysis and prediction. In this presentation,

we'll cover visualization in both R and Tableau, their relative strengths and weakness for both simple visualization and for analysis, and when to select one over the other.

Louisville R Users Group - Louisville, Kentucky, March 07, 2017
Analysis of Protein Folding – exploratory analysis and prediction

While clear and accurate representation of data is important, it is not the whole story. Visualization projects are often undertaken not only to understand what happened, but also to explain what caused it to happen. This moves us away from simple visualization and into analysis and prediction.

Louisville Predictive Analytics Meetup - February 10, 2017
Predicting Protein Structure – simpler than you think

I'm going to talk about Predicting Protein Structure using R and a real-life, messy dataset from UCI. We'll mainly cover exploratory analysis with some model building and domain knowledge thrown in for good measure.

Tableau Users Group Cincinnati - Cincinnati, Ohio, January 10, 2017
Louisville Bicycle Crashes - lessons learned

This project started at the Fourth Annual Hack for Change in Louisville Kentucky on August 4, 2016 as part of the Civic Data Alliance Hack for Change. In this presentation, we will examine the data using Tableau's bar charts and maps, review a previous report and show why a deeper analysis is necessary. Finally, we will make some recommendations for a continuation of the study. Follow the link for a copy of the paper. Louisville Bicycle Crashes - lessons learned

Indy UseR Group - Indianapolis, Indiana, May 17, 2016
Big Molecules Meet Big Data - **Predicting Protein Tertiary Structure from Combinatorial Chemistry Data**

Much has been written in the popular press about the revolution taking place in Biology and Medicine. Less well reported, but just as revolutionary, has been the development of statistical and computational methods used to analyze and manage the large-scale data which makes these advances possible. In this paper we will discuss the exploratory analysis and prediction of one property, the Root Mean Square Deviation (RMSD), from data downloaded from a large, publically available dataset.

Springboard Capstone Project Webinar - January 21, 2016
Big Molecules Meet Big Data - **Predicting Protein Tertiary Structure from Combinatorial Chemistry Data**

Much has been written in both the popular and business press about Big Data and its use. Less well reported, but just as revolutionary, has been the development of Combinatorial Chemistry methods used to carry out such large-scale projects. Most of these projects produce massive amounts of data relating to protein structure. The experimental determination of this protein structure is typically time consuming and relatively expensive. Hence, statistical methods for predicting some structural parameters of these proteins would be valuable. This paper discusses the prediction of one property, the Root Mean Square Deviation (RMSD) from some measured and calculated protein attributes using the R statistical programming language.