Bruce G. Graham

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My LinkedIn Profile

My GitHub Profile

ANALYZE DATA/SOLVE PROBLEMS/REMOTE: I am very passionate about data analysis/solving problems as reflected by my projects and articles listed below. During my temporary retirement, I recently completed the training path to Data Scientist in Python . I'm ready to take on a broader range of new challenges.

DATAQUEST PYTHON/SQL PROJECTS

First four projects below **received Community Project Champion of the Week award** with comments by Community Manager as shown. These projects and others are posted in GitHub.

Fandango 2015 Movie Ratings - Legit or Bias – *"Apart from amazing and informative graphs and profound statistical analysis, the project stands out for its interesting critics of data gathering process, individual approach to select a significant control group, curious observations and especially conclusion."*

CIA Factbook Data Analysis using SQL - *"It stands out for its very thorough data analysis, incredible background research supplemented with amazing pictures and demonstrating a huge curiosity to the topic."*

Popular Data Science Questions – "*Here he conducted a very thorough analysis, added awesome insightful visualizations and images, made interesting observations, and listed the most frequent questions apart from the most frequent tags."*

Best E-Learning Markets to Advertise In – *"It stands out for its innovative approach, applying Pareto principle, creating insightful visualizations, digging deep into the data, and obtaining interesting findings."*

Hacker News Posts Analysis – dug much deeper with analysis than DataQuest solution guide and came up with a very significant different conclusion.

EXPERIENCE

Oregon Tool, *Quality & Mfg. Engineer*
Nov. 1997 – Jan. 2018

- Utilized RCA to solve product distortion problem – reduced reject rate from 36% to < 0.05%
- Assisted product supplier solve quality problem - identified problem source that supplier was not aware of via data analysis.
- Used statistical analysis to yield inspection cost reduction without sacrificing product quality - > $100,000 savings/year
- Applied DOE for supplier brazing operation, reduced defective rate from > 25% to < 2%
- Used Multiple Regression Analysis to significantly reduce automated machine downtime significantly.
- Developed software program interface and macros without formal training (i) automatically generated desired output in innovative manner (ii) to perform various test statistics not available on the market.
- Have extensive experience with statistical analysis software: *SPSS, SAS, STATGraphics, Minitab, & SQC*.

HARD SKILLS

- Python
- Pandas
- Numpy
- SQL
- APIs
- Command Line
- Six Sigma
- Data Cleaning
- Data Visualization
- Data Manipulation
- GIT & Version Control
- Regression Analysis
- Design of Experiments
- Root Cause Analysis
- 7 Quality Tools

AWARDS/CERTIFICATES

Completed DataQuest training path to ***Data Scientist in Python***: 144 lessons, 35 projects. Certificate verified - **Aug. 16/2021.**

Certified Six Sigma Black Belt – Jan. 2013 – exam: 99/100

ASQ - Certified Quality Eng. – Sept. 1987
Professional Engineer – 1977

ARTICLES WRITTEN

Data Explains Unlikely Win Used data analysis to show why 8th seed NBA team beat 1st seed team in 2011 basketball playoffs.

Quality of Data Is it even relevant to talk about the quality of DATA compared to the quality of product or service?

Show Me the Data When is it appropriate to back statements with data?

EDUCATION

Bachelor of Applied Science – Mechanical Engineering - 1975