Charity Wilson

Using Data to Improve the lives of people

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Senior Consultant- Advanced Analytics

Utilized modeling to find hidden opportunities for business growth. Relying on Linear Regression, diagnosed long patient wait times in medical clinics, creating recommendations that ultimately reduced patient wait times by 20 minutes during the busy period. Worked with business leaders to understand and analyze data from medical claims, patient surveys and clinic operations.

Career Highlights

- Increased revenue by more than 1.1% and $1.8 million in less than six (6) months for a 300-clinic network with average clinic volume of 100 patients per day, by (1) analyzing correlations among patient waiting times and patient retention, billing, and collections; (2) reducing average waiting times by more than 20 minutes; and (3) providing analytical support in business process reengineering.

- Led financial forecasting and enabled strategic planning for a cardiac and pulmonary practice with more than 10,000 patient visits per year in a Metropolitan Statistical Area (MSA) of 6.9 million by developing a predictive linear model of third-party payment (TPP) with an R squared of 88% (accurate within $1.17 per insurance claim) across 56 health plans.

- Identified data sources, cleansed data, and ran advanced data analytics to inform the public housing policies of local housing agencies (HAs) around for low-income residential development in the 5th largest MSA in the U.S.—quantifying the differential ROI per square foot available to real estate developers through low income versus luxury properties.

Experience

Saxony Partners   Oct 2017-Present

Senior Consultant

- Identified winning capital improvement strategies for real estate clients using Time Series VAR models in R resulting in potential savings of **$10,000** annually to Clients
- Applied Linear Regression modeling methods to improve cash flow by more than 38% per month in less than 12 months.
- Developed Linear Regression to key business metrics for a restaurant client to assist them in delivering on time food, recommending a way to improve metric by **15%**

Concentra   April 2014- Oct 2017

Customer Experience Analyst

- Improved time-in-clinic metrics by more than **37%** in less than three (3) months by analyzing survey results and generating actionable insights for leadership decision making.

- Created Alteryx workflow to process 1500+ Time Series forecasts improving budget projections by **12%**
- Aligned physician attitudes and behaviors to improve clinical performance by running regression analyses in Alteryx and converting quantitative findings into compelling clinical stories.

Carlson Wagonlit Travel   April 2010-Aug 2013

Senior Consultant | Data Analyst

- Developed actionable insight that drove business strategies, optimizing the model for individual centers resulting in opportunity to save **$2 million** annually
- Utilized multi-linear regression to analyze passenger surveys resulting in new understanding of primary drivers of satisfaction.

BCD Travel   April 2006-March 2010

Senior Travel Consultant | Business Analyst

- Developed strategy to improve savings for Siemens Corp in their travel spend, saving $1 mil annually
- Analyzed Upgrade program offered by Airline, and recommended course of action

Education

Masters in Economics

Masters in Business Administration

Bachelors in Sociology

Certifications

Alteryx Partner Certified

Alteryx Advanced Designer Certified

Alteryx Designer Core Certified

Awards and Recognitions

Alteryx Grand Prix

Recognized as LinkedIn Influencer in Machine Learning and AI

Languages and Tools

Tool	Proficiency
Alteryx	●●●●
Excel	●●●○
R	●●○○
SQL	●○○○
Python	●○○○

Skills

Predictive Analytics

Statistical Modeling

Data Analysis

Econometric