MICHAEL M. ERYAN

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This resume is available at https://goo.gl/bYSDny
Personal website: https://mikeeryan.github.io

ANALYTICS CONSULTANT
Technical Solutions | Analytic Leadership | Data Management

Analytics consultant with a strong understanding of statistics, extensive technical expertise and experience in providing analytical solutions in support of key organizational goals and objectives.

AREAS OF EXPERTISE

- Statistics & Econometrics
- Linear & Logistic Regressions
- Vendor Relationships
- Time Series Forecasting
- Machine Learning
- Reinforcement Learning

- SAS Programming
- Project Management
- Technical Documentation
- Statistical Techniques
- Supervised Learning
- Deep Learning

- A/B Testing Models
- Business Intelligence
- Predictive Analytics
- Business Trends
- Unsupervised Learning
- Self-service applications

PROFESSIONAL EXPERIENCE

CHARLES SCHWAB, LONE TREE, CO   2017 - Present
Senior Manager - Analytics Consultant - Strategy, Data & Analytics - 2021 - Present
- Contributed to the Google Cloud Migration as:
    - Developer: converted Oracle and Teradata code to run on BigQuery for 40+ jobs, ultimately saving the firm hundreds of thousands of dollars.
    - QA Tester: built new automated testing modules in SAS for regression and mock testing that reduced time spent on QA and data validation nearly by 50% without sacrificing accuracy.
    - Project manager: wrote 10+ guides and standard operating procedures on Confluence to allow my team to work efficiently and meet the deadlines.
    - Trainer: trained colleagues to build and re-build processes for accuracy, efficiency, and transparency to improve the quality of all our projects.
    - Leader: always led by example and practiced what I preached by writing clean, maintainable and robust production code to minimize technical debt and production support.
- Transformed the backend of Advisor Services Benchmarking Survey project:
    - Redesigned slow and error-prone SAS codebase 50+ scripts to make the job run 90% faster and be easier to maintain
    - Saved my team time on data validation by creating 20+ modules/macros that run as a batch and output results for manual review
    - Transformed the whole process to be more data driven instead of code driven in order to be transparent and self-documenting which will benefit our team for many years.
- Delivered robust statistical analysis by automating hundreds of T-tests at different levels of granularity that allowed the product owners to make a strategic decision with long term positive implications for the competitiveness of the Benchmarking Survey.
- Consulted business partners across three business areas, gathered requirements and translated them into accurate and efficient technical solutions.
- Developed and maintained a portfolio of 100+ automated and self-service reports for trading, pricing & billing and compliance teams.
- Built a new logistic regression model using featured engineered from internal and third-party data for the Fraud Risk Management team which allowed them to better understand and strategize their tasks.

Senior Manager – Statistical Analyst – Data, Analytics & Insight – 2019 – 2021
- Scoped analytical projects including determining optimal methods, identifying resources and assets needed, developing execution plans, and conducting analysis.
- Worked together with business partners to gather, refine and document business requirements.
- Used efficient modular programming techniques in SQL, SAS, Python and R to develop tools and foundation necessary to produce accurate and reproducible results for projects requiring natural-language processing and machine learning.

- Built predictive models using logistic regression and decision trees to find client segments optimal for planned marketing campaigns.
- Practiced and advocated efficient programming and testing techniques, version control and documentation to peers and mentees.
- Communicated and interpreted analytical results to business partners in order to guide them in making actionable decisions.
- Worked closely with business intelligence analysts to develop data structures necessary for dashboard visualizations for the end users.
- Used Microsoft Excel and PowerPoint to present key findings to team mates and partners.
- Demonstrated strong leadership and communication skills needed to build effective partnerships both with colleagues and business partners.

Senior Manager - Database Marketing Campaign Analyst - Analytics & Business Insight – 2017 - 2019
- Envisioned a new data processing methodology to ensure accuracy, efficiency, transparency, flexibility and scalability using SAS macros and workflows.
- Built dozens of modularized SAS macros using "data" step and SQL to support large scale cash product projects that had a high impact to Schwab's bottom line.
- Acted as an internal consultant to business partners to assess their decision-making, reporting and marketing needs, and recommended appropriate metrics, either from existing reports or from newly developed reports.
- Researched, analyzed and leveraged data from a wide range of internal and external sources to generate accurate and comprehensive direct marketing lists.
- Developed and applied a deep and broad understanding of the underlying business & marketing issues that the reports and analyses were intended to address, in order to ensure their accuracy & relevance.

WESTERN UNION, ENGLEWOOD, CO   2011 – 2017
Senior Statistical Analyst – Global Analytics and Insights
- Built advanced programs in SAS using "data" step, "proc sql," and the macro language.
- Developed complex SQL scripts in both Oracle and Netezza RDBMS to produce reports and prepare data for modeling.
- Designed SQL pass-through queries using SAS macro language to efficiently process large amounts of data in Oracle and Netezza.
- Took the initiative to build new professional partnerships and learn new technical skills to install, configure and maintain statistical software and to fill in the existing gap between the department's developers and the IT department.
- Performed Windows Server 2012 R2 and SAS 9.4 Business Intelligence platform administration and Redhat Linux and RStudio Server Pro configuration and administration.
- Lead in terms of predictive modeling, using logistic regression in SAS and machine learning techniques in R to support the digital business team in creating predictive models for marketing campaigns and risk assessments.
- Developed and implemented an in-house A/B Testing methodology, using 3rd party software to successfully design and analyze marketing, pricing, direct mail and email test-and-learn campaigns.
- Summarized, presented and interpreted key findings in both written and verbal form to colleagues and superiors to improve decision making abilities.
- Mentored junior analysts and other colleagues on the use of new software, programming and statistical foundations to increase both individual and team performance.
- Managed a vendor competition to choose the best forecasting software including creating a new forecasting process for the global business channels that allowed for more informed strategic decision making.
- Worked in collaboration with an industry leading vendor to develop and manage the global growth decomposition tool, Marketing Mix Model.
- Played a key role managing the projects that required collaboration with IT and business partners, the acquisition of new hardware and software and the training and outsourcing of processes to a number of offshore teams.
- Correctly analyzed various pricing and marketing campaigns through the use of advanced statistical techniques.

TECHNICAL PROFICIENCY

Data Management:	SQL (14+ years) in BigQuery, Teradata, Netezza, Oracle, Hadoop Databases, SQL Server, Microsoft Office Suite, Oracle DB Administration, PL/SQL
OS Administration:	Windows Server 2012 R2, Redhat Linux
Software Packages:	SAS (14+ years) (Base, Enterprise Guide and Enterprise Miner), Alteryx, Rstudio, Rapidminer, KXEN, Stata, Autobox, EViews, Forecast Pro, Applied Predictive Technologies
Software Administration:	SAS 9.4 Server, RStudio Server Pro
Programming:	Python, R
Version Control:	Git, GitHub, Bitbucket
Project Management:	Jira, Confluence

| Miscellaneous: | Visual Studio Code, Keras, Tensorflow, Tableau, Hadoop, MapReduce, NoSQL Databases, MongoDB, XML |

TECHNICAL CERTIFICATIONS

Scrum Alliance:
Certified ScrumMaster (CSM), (2024)

Atlassian:
Certified Associate - Jira Software Essentials Certification, (2024)
Certified Associate - Jira Software Board Configuration, (2024)

Google:
Google Project Management Certificate, (2024)
Professional Machine Learning Engineer Certificate, (2023)

Coursera:
Specialization: Preparing for Google Cloud Certification: Machine Learning Engineer, (2023)
Specialization: Machine Learning on Google Cloud, (2023)
Specialization: From Data to Insights with Google Cloud, (2021)

DataCamp:
Data Engineer with Python Track, (2020)
Data Scientist with R Track, (2019)

Udacity:
Machine Learning Engineer Nanodegree, (2018)
Data Analyst Nanodegree, (2017)

SAS Institute Certifications:
SAS Advanced Analytics: Establishing Causal Inferences: Propensity Score Matching, Heckman's Two-Stage Model, Interrupted Time Series, and Regression Discontinuity Models, (2020)
SAS Certified Statistical Business Analyst Using SAS 9: Regression and Modeling, (2015)
SAS Certified Advanced Programmer for SAS 9, (2011)
SAS Certified Base Programmer for SAS 9, (2010)

Oracle University Certifications:
Oracle PL/SQL Developer Certified Associate, (2015)
Oracle Database 11g Administrator Certified Associate, (2012)
Oracle Database SQL Expert, (2011)

EDUCATION

Masters of Arts, Economics – University of Colorado Denver, Denver, CO (2010)