

Christopher Swenson

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Profile

- Natural leader in analytics and data science with over 10 years of experience, collaborating with C-suite executives, mentoring junior colleagues, and contributing with expertise in statistics, machine learning, AI, and reporting tools.
- Significant achievements in saving time for people and processes, maximizing the accuracy of forecasts, improving record matching between systems, and assessing the efficacy of interventions and marketing campaigns.
- Proven leadership demonstrated in various roles: Product Owner for the data science team, leader of the Neurodivergent Support Group, mentor for junior colleagues, collaborator and presenter to C-suite executives, supervisor for sales analytics, and HEDIS Data Project Manager (2010).
- Master's degree in Applied Statistics, certifications in machine learning, leadership training, and bachelor's degree in psychology with a focus on research, statistics, math, and science.

Experience

Data Scientist 3 - Data Science Product Owner

Mar 2021 - Jul 2025

Promega

Fitchburg, Wisconsin, United States

- Saved over 80 hours per week for sales team by leading a cross-functional team to leverage LLM email summarization, delivering results within a customized ChatGPT AI agent
- Improved customer matching from 48.6% to 83.8% on \$1.25 billion of transactions and reduced runtime from 2 hours to less than 20 minutes per day, using T-SQL and SSIS, providing insights on customers for sales, marketing, and finance teams
- Reduced daily runtime by 83% for data used in Power BI reports by optimizing text-search workflows, using SSIS, SQL Server Full-Text Index, and dynamic T-SQL in stored procedures
- Maximized accuracy to 93.6% in forecasts of over 370,000 financial categories, leveraging simple linear regression using T-SQL in SQL Server and later Python and SQL in Azure Databricks
- Identified £30,000 or more in potential savings by evaluating an annual promotional campaign with propensity score matching an analysis of variance using SQL and Python
- Managed data products as product owner, assessing requests and priorities, delegating tasks, and project management - serving various teams at a biotechnology manufacturing company
- Won the Building Connection Award for establishing and leading the Neurodivergent Support Group

Data Scientist

Apr 2020 - Feb 2021

SSM Health

Madison, Wisconsin, United States

- Maximized forecast accuracy to 99.8% for COVID-19 hospital admissions through redesign, validation, tuning, feature engineering, and performance tracking with SQL, R, and STAN
- Maintained 99.7% uptime on automated COVID-19 data model used in forecasting for internal customers and reporting to government officials, maintained in SQL, SSIS, and Python
- Identified 847 high-risk patients for targeted treatment outreach with an imbalanced risk model in R, collaborating with nurses and EMR experts, enabling prioritized care allocation
- Provided timely, key metrics to supply chain and procurement colleagues, estimating personal protective equipment usage for COVID-19 hospitalizations

Senior Healthcare Analyst

Sep 2017 - Apr 2020

SSM Health

Madison, Wisconsin, United States

- Demonstrated a decrease of 7 BMI points with \$0 increase in costs for patients in a weight-loss program using observational analyses in SAS, including causal factors and custom features
- Attained 40% increase in predictive model accuracy by adding social determinants of health via feature engineering using electronic medical records and health insurance claims in SAS

Data Analyst Consultant Jul 2017 - Sep 2017
Great Wolf Resorts Madison, Wisconsin, United States

- Matched \$13 million of credit-card transactions to reservations, consolidating disparate records for reconciliation, revenue attribution, and customer engagement insights

Senior Lead Informatics Analyst Jun 2014 - Jun 2017
Health Data & Management Solutions Chicago, Illinois, United States

- Saved several hours per week in processing time of massive external data ETL in SAS
- Recommended cost-reduction actions based on analytical identification of low-value services
- Communicated complex analyses and algorithms to internal staff and customers

Data Scientist - Sales Analytics Supervisor May 2012 - Jun 2014
Healthgrades Madison, Wisconsin, United States

- Supervised two data analysts supporting sales analytics for customers by instituting standard reports, peer review, and mentoring - progressing from oversight to independence
- Demonstrated customer ROI through complex analysis of website, call center, and electronic medical records; strengthened the analysis by challenging and updating assumptions
- Recipient of the Pizza Day Award for improvements on the market configuration tool, reducing configuration time for analysts and improving customer satisfaction, built with SQL and Python

Visit www.cswenson.com for additional experience

Education

Master's Degree in Applied Statistics Aug 2020 - Dec 2024
Pennsylvania State University University Park, Pennsylvania, United States

- Regression, Experiments, Machine Learning, Time Series, Epidemiology, Calculus

Bachelor's Degree in Psychology and Music Sep 2000 - May 2005
University of Wisconsin-Whitewater Whitewater, Wisconsin, United States

- Statistics, Research Methods, Honors Thesis, Calculus, Biology, Physics

Training

PitchLab: Introductory professional pitch development Feb 2026
Manitoba Start, New Media Manitoba Winnipeg, Manitoba, Canada

Manager Boot Camp Apr 2022
University of Wisconsin School of Business Madison, Wisconsin, United States

Machine Learning Certificate in Python Oct 2020
Enthought Austin, Texas, United States

Machine Learning Certificate Aug 2013
Andrew Ng, Stanford University Stanford, California, United States

Additional Skills

- A/B testing, experiments, time-series forecasting, predictive modeling, Bayesian statistics
- Decision trees, random forests, SVMs, neural networks, cluster algorithms, XGBoost
- PostgreSQL, CI/CD, DevOps, MLOps, automation, feature engineering, quality assessment