

# David Iitzky

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## EDUCATION

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### University of California, Berkeley School of Information

Expected May 2025

Master of Information and Data Science

- **Relevant Coursework:** Data Science Programming, Research Design and Applications for Data and Analysis

### The University of Texas at Austin, College of Natural Sciences

December 2021

Bachelor of Science in Mathematics, Bachelor of Science in Chemistry

- **Certificates:** Applied Statistical Modeling, Scientific Computation and Data Science
- **Relevant Coursework:** Applied Regression & Time Series, Decision Analytics, Elements of Databases, Predictive Analytics, Quantum Chemistry, Linear Algebra and Matrix Theory, Statistics in Market Analysis, Scientific Programming

## SKILLS

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**Languages:** Python, R, SQL, C++, DAX, FORTRAN

**Tools:** Power BI, Tableau, Azure ML, BigQuery, Hadoop

## WORK EXPERIENCE

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### Microsoft

*Data Scientist (Advanced Analytics Program);* Redmond, WA

October 2022-Present

- Improved the ML space utilization forecast methodology utilizing time series analysis, leading to a 75% advancement for more than 600+ workplace locations with an aggregate OPEX spending of over \$2B+
- Performed comprehensive analysis of space utilization leveraging telemetry data collected from building motion sensors, resulting in a substantial 18% improvement in accuracy for the annual forecasting process
- Assisted in the development of an ML forecasting model using Python to estimate operational and capital expenditures for real estate, enabling data-driven decision making and financial planning
- Built a hierarchical forecast prototype using Prophet in R to simulate real estate driver spending

*Analytics Program Manager;* Redmond, WA

March 2022-Present

- Led the Error Free Experience metric for consumer operations, resulting in a 4% increase in successful agreement and invoice processing as reported on the CFO yearly scorecard
- Contributed to the integration of multiple data lakes into a unified Connected Data Platform (CDP) system, enabling the Consumer Business to improve forecasting accuracy, detect fraud, and identify anomalies
- Enhanced first pass yield data queries utilizing SQL and performance tuning techniques, culminating in a 3% increase in the accuracy of the machine learning forecasting model
- Collaborated on a consumer hardware forecast model to predict future inventory supply and anticipate revenue growth

**McCombs School of Business – Data Analytics Project Manager;** Austin, TX

September 2021-December 2021

- Implemented the first capacity forecast utilizing R programming language, to accurately predict incoming MBA enrollment growth, subsequently contributing to the institution's planning and resource allocation
- Developed key performance indicator (KPI) dashboards to monitor and track MBA student performance, identifying areas for improvement and enhancing cohort engagement and alumni connections

**Microsoft –Operations Program Manager Intern;** Reno, NV

May 2021-August 2021

- Developed a machine learning model for staffing optimization that accurately predicted a 15% increase in transactional volume, resulting in optimized staffing and increased efficiency
- Conducted economic impact forecasting to optimize business drivers, by analyzing the potential effects of increased workforce capacity on future outcomes

## CERTIFICATIONS

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- SAFe Product Owner/Product Manager (POPM) Certification (6.0)

April 2023

- Prosci® Taking Charge of Change Certification

February 2023