

NICHOLAS E NEUENSCHWANDER

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QUALIFICATIONS SUMMARY

- Data Scientist with 6+ years of experience in solving complex problems through the analysis of large data sets with the ability to interpret results into actionable outcomes.
- Expertise in Python for modeling, analytics, ETL and data processing, with experience in Numpy, Pandas, SKLearn, SciPy, Keras, and TensorFlow.
- Well-versed in machine learning and modeling techniques, including regression, clustering, classification, neural networks, and reinforcement learning.
- Highly proficient in SQL for database management, ETL, data analysis, and modeling. Experience using PostgreSQL, Vertica, pyodbc, and DBVisualizer.
- Experienced with Git for version control software and Jira/Jira Align for project planning and management.
- Exceptional communication, presentation, and reporting skills. Strong proficiency to visualize results in a simple, yet meaningful manner with Matplotlib and Tableau.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Master of Science; Computer Science

Anticipated Graduation Date: December 2022

KENNESAW STATE UNIVERSITY

Kennesaw, Georgia

Bachelor of Science; Mathematics

GPA: 3.86/4.0

Minor; Applied Statistics and Data Analysis

December 2014

PROFESSIONAL EMPLOYMENT

CARDLYTICS

Atlanta, Georgia

Manager, Data Science – Data Stewardship

October 2019 – Present

- Lead a team of data scientists to develop automated tools to detect changes in consumer spend data using time-series models including ARIMA, Prophet, LSTM networks.
 - Automated the prediction of 1000+ time-series models through DataRobot using Python, Linux, and SQL for Anomaly Detection methods in proprietary spend data.
- Lead the collaboration between the US and India Data Science teams to develop a multi-label classification model using an LSTM architecture with BERT encodings on transaction level data for delivery and payment service predictions.
- Developed crucial reports to simulate impact to campaign media fees and liabilities related to data changes across all 15 bank partners for 300+ campaigns daily using Python, SQL, and Tableau.
- Responsible for new bank partner QA and data on-boarding. Oversaw the on-boarding of two large national bank partners resulting in the addition of \$500BN+ of annual proprietary transaction data.
- Managed technical relationship for third-party data connections to pair proprietary data with client data for 200MM+ bank users.
- Created custom self-serve transaction level reporting and monitoring tools for analytics, media managers, and sales teams using Tableau to ensure flawless execution of media campaigns.

Data Scientist

October 2018 – October 2019

Associate Data Scientist

April 2017 – October 2018

- Engineered a customer propensity model using a Convolutional Neural Network through Keras to predict the likelihood of future customer-level purchases for 300+ retail brands.
- Developed a stacked-model framework with a teammate to accurately predict the final number of advertising campaign redemptions with an R2 score of 0.95 using XGBoost, neural networks, and random forest algorithms.
- Created an automated daily forecast system using Python and SciPy packages that allowed our account management team to monitor and adjust advertising campaigns achieving a MAPE of 10% across 300+ campaigns.
- Implemented text mining and classification algorithms on trillions of data points to build probabilistic audiences using Apache Spark through TF-IDF, and Random Forest Classification.

- Improved forecast accuracy for highly seasonal advertisers by developing a retail holiday list and implementing a centering method using YoY sales.

Data Analyst

January 2015 – April 2017

- Worked with a colleague to build and automate a weekly client reporting system using python, SQL, and Linux that automatically created PowerPoint presentations and uploaded the results to Salesforce.
- Developed and maintained a Python code base that generated and executed SQL statements to allow non-technical users to build custom datasets.
- Worked closely with the Account Management team to design and produce custom client facing reports for digital advertising campaigns.

CERTIFICATIONS

Deep Learning deeplearning.ai Credential ID

Coursera

April 2019

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- Five-course specialization covering: neural networks, hyperparameter tuning, convolutional neural networks, recurrent neural networks, TensorFlow, and Keras

SAS Certified Base Programmer Kennesaw State University Credential ID

SAS

December 2013

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