Dustin Wicker

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SUMMARY

Experienced data scientist with creative problem-solving mindset and strong interpersonal skills, with a proven track record of implementing machine learning models and advanced data mining techniques to turn technically complex challenges into viable solutions. Detail-oriented, innovative critical thinker dedicated to making a difference through data-driven results. Key accomplishments and abilities include the following:

- Building custom production-level analytics deliverables in workflow process
- Communicating complex concepts to technical and non-technical audiences
- Working collaboratively with diverse sets of professionals to achieve optimal results

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SKILLS

- *Technical:*   Python, SQL, PySpark, Tableau, Git, R, Hadoop Ecosystem, Dataiku DSS

EXPERIENCE

Thinkful, Edgewater, CO (Remote)
Data Science Mentor   November 2018 - Present

- Mentoring data science students one-on-one through six-month online academy specializing in Python, PySpark, and SQL to develop their analytical skills and become proficient in the full data science stack
- Guiding mentees through content including programming fundamentals, statistical and regression analysis, machine learning, and big data using instructional sessions, code review, and pair programming
- Providing students with career coaching and industry best practices to assist their transition into the advanced analytics and data science field

Cognizant, Parsippany-Troy Hills, NJ
Business Analytics and Insights Senior Associate   August 2017 - July 2019

- Worked with a Fortune 500 rental car company to develop three production-level machine learning models in Python and synthesized the results to predict rental patterns of 4M brand switching customers resulting in a win-back email marketing campaign
- Developed machine learning models in PySpark using real-time car telemetry data to predict car maintenance failures before they occurred resulting in optimized car usage across the fleet and overall reduction in maintenance costs per vehicle
- Utilized a variety of text mining techniques in Python on 45K post-rental survey responses to decipher patterns among positive and negative customer experiences
- Analyzed 25M customers and their 82M rentals through statistical techniques in Python to identify differences between churned and non-churned customers
- Segmented those 25M customers into five unique clusters using the K-means algorithm in Python to enable the client to send tailored emails and promotions
- Created bundles of the most popular products purchased together by performing association analysis in R on 35M ancillary product transactions resulting in immediate uplift in online sales

Graduate School Practicum
Northrop Grumman   September 2016 – May 2017

- Investigated specific questions concerning fraud, waste, and abuse such as: DRG upcoding, atypical care patterns, and 30-day readmission rates
- Implemented techniques including data mining, association analysis, regression analysis, and network analysis using R, SQL, and SAS
- Analyzed over 12GB of Centers for Medicare and Medicaid Services (CMS) data containing 2.7 million Medicare claims with approximately 3,400 fields per claim

PawBoost, Raleigh, NC
Data Analyst December 2016 – August 2017
- Analyzed data sets in Python containing information on over 100,000 lost pets and identified notable patterns, trends, and deficiencies to boost business performance
- Created visualizations in Tableau to communicate meaningful findings to business owners

Duke Energy (Shearon Harris Nuclear Power Plant), New Hill, NC
Design Engineer II December 2013 – June 2016
- Designed the engineering change product for the number one safety issue at the plant and led a team of diverse professionals through installation and implementation
- Assisted in the creation of the Fukushima flooding inspection document which guaranteed the safety of the plant in the event of a natural disaster

Duke Energy (Shearon Harris Nuclear Power Plant), New Hill, NC Engineering
Intern/Temporary Student Worker May 2013 – December 2013
- Categorized over 100 De-energized Relays by using 15 pieces of pertinent information for each which led to increased safety
- Generated a descriptive list of all 166 Preventative Maintenance Identification Relay Quantities and evaluated each one for Preventative Maintenance optimization
- Completed Flow Accelerated Corrosion evaluations for the upcoming Refueling Outage which guaranteed the reliability of those piping systems

EDUCATION

Master of Science in Analytics May 2017
Institute for Advanced Analytics, North Carolina State University, Raleigh, NC

Bachelor of Science in Civil Engineering, *magna cum laude* December 2013
North Carolina State University, Raleigh, NC
Honors: Dean's List seven times, National Collegiate Honor Society

Università Cattolica del Sacro Cuore January 2013 – May 2013
Milan, Italy

VOLUNTEER EXPERIENCE

FightPandemics
Web Scraper May 2020 – June 2020
- Scraping all pertinent data from COVID-19 related websites using Python
- Coordinating with data managers to ensure correct format and destination of the data

History Colorado Center January 2019 – July 2019
- Improving membership retention and fundraising efforts by cleaning up textual mistakes across 2,000 unique records in database system

Habitat for Humanity, Greater San Francisco, CA June 2015
- Worked with a team of fellow volunteers to construct homes for at-risk families

Alternative Spring Break, Costa Rica March 2012
- Learned with a team about environmental sustainability in the rain forest
- Worked with a local family and learned environmentally friendly farming techniques