Ryan Blanchette

Summary

Data Scientist with 4+ years of experience applying analytics to solve business problems and identify opportunity. Advanced knowledge in analytics, statistics, and mathematics with application experience in education, healthcare, and marketing.

Contact Info

Email: Jblanche1325@gmail.com
Phone: (423) 506-3045
Location: Knoxville, TN
Linkedin: RyanBlanchette13

Experience

Data Analyst, University of Tennessee
September 2019 - Present

- Collected and cleaned data from various sources to submit to critical surveys for the continuing success of the engineering college
- Fostered the movement from manual data processes and reports from Excel to Microsoft SQL Server, R, and Power BI
- Designed and implemented Power BI dashboards for the engineering college leadership
- Built visualizations and reports for senior leadership to effectively demonstrate strengths of the college
- Collaborated with other data owners across the university to answer ongoing and ad hoc data needs

Data Analyst, Jewelry Television
August 2018 - September 2019

- Led the Analytics team in learning about and adopting big data technologies such as Hive and Spark which produced greater opportunity and increased speed of existing solutions
- Successfully converted production models originally built in R into PySpark code
- Standardized the methodology used to identify potential churn customers with machine learning in R to analyze customer purchase history and produce risk scores with nearly 90% model accuracy
- Maintained reports on the effectiveness of various marketing campaigns with various tools in R which helped guide future campaigns
- Engaged executive-level management to discuss goals that could be met with data and analytics

Skills

Technical

Machine Learning
Statistical Analysis
Time Series Forecasting
NLP Fundamentals
Marketing Analytics Data Visualization
Exploratory Data Analysis
Data Cleaning

Tools and Software

R
Python
SQL
Tableau
Spark
Hive
SAS
SAS Enterprise Miner
Microsoft Office
Power BI
Linux

Data Science Libraries

Tidyverse
Caret
randomForest
glmnet
rpart
Shiny
Plotly
Odbc
Sklearn
Keras
PySpark
BeautifulSoup

Healthcare Economics Consultant, UnitedHealth Group December 2016 - August 2018

- Developed analytics using SAS that identified medical claims as either fraud, waste, or abuse which resulted in thousands of dollars in savings
- Supported in the development of a healthcare provider exploration tool with Tableau
- Explored vendor claims data using machine learning in R and SAS Enterprise Miner in order to aid the creation of new analytics

Graduate Teaching Assistant, University of Tennessee August 2015 - May 2016

- Guided senior undergraduate students in statistics through emails, office hours, and study sessions
- Graded homework, projects, and exams
- Experimented with different statistical packages to help modernize the courses

Mathematics Tutor, University of Tennessee January 2014 - May 2015

- Coached mathematics students through different methods such as examples and homework help with led to a stronger student understanding of the materials
- Communicated with supervisor about ways to improve the tutorial center; a new and improved tutor schedule was created

Education

Ph.D Student Industrial Engineering, University of Tennessee
January 2020 – May 2023 (Expected)

- Advisor: Dr. Anahita Khojandi
- Research Interests: Machine learning in healthcare

M.S. Business Analytics, University of Tennessee
August 2015 – December 2016, GPA: 3.80

- Capstone Project: Time Series Forecasting for Proctor & Gamble
- Coursework: Machine Learning, Text Analytics, Marketing Analytics, Probability and Statistics

B.S. Statistics, University of Tennessee
August 2011 – May 2015, GPA: 3.75

- Outstanding Graduate in Statistics

Publications

Blanchette, R., A. Khojandi, D. Cox, M. Oliver, R. Fernandez. Predicting Alzheimer's Disease Using Driving Simulator Data. In *2020 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, 2020, pp. 5432-5435. IEEE.