

C. Douglas Marcum

CONTACT

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🏠 Indianapolis, IN

PROFILE

A curious business analytics professional passionate about creating a bridge between data scientists and stakeholders to create data driven solutions. Skilled at research, data modelling, machine learning, and visualizations.

EDUCATION

Master of Science in Data Science

Bellevue University Bellevue, NE 2021

Coursework included: Applied Statistics, Data Exploration and Analysis, Data Preparation, Data Mining, Predictive Analytics, Data Presentation and Visualization, and Big Data

Bachelor of Science in Political Science and Sociology

Ball State University Muncie, IN 2000

CERTIFICATIONS

Data Scientist with Python - DataCamp

[Certificate](#) - December 2020

Python for Everybody - University of Michigan / Coursera

[Certificate](#) - July 2019

Customer Analytics - University of Pennsylvania / Coursera

[Certificate](#) - June 2019

IBM Data Science Professional - IBM / Coursera

[Certificate](#) - May 2019

DATA AND MODELING SKILLS

Data Exploration, Extraction, Wrangling

Machine Learning: Supervised, Unsupervised, Reinforcement, Clustering, Deep Learning

Statistical Analysis: Hypothesis and A/B Testing, Descriptive and Inferential Statistics

TECHNICAL SKILLS

Languages: Python, R, SQL

Data Analysis and Wrangling: Numpy, Pandas, Excel, dplyr, tidy

Data Visualization: Matplotlib, Seaborn, Tableau, Plotly, Folium, ggplot2

ML Frameworks: Scikit-Learn, TensorFlow, PyTorch

Tools: GitHub, PyCharm, Jupyter Notebook, MS Office Suite

Big Data Technologies (limited): Hadoop, Spark, PySpark

BUSINESS SKILLS

Effective Communication and Deadline Management

Leadership and Stakeholder Management

Project Management and Oversight

Extensive Talent Acquisition Background

Creative and Perceptive Problem Solver

Passionate About Continuous Learning

DATA SCIENCE PROJECTS | [GitHub](#)

Breast Cancer Analysis and Prediction | [GitHub](#)

- Performed exploratory data analysis on the UCI Wisconsin Breast Cancer dataset to predict malignant and benign tumors in patients.
- Lasso Regression and OLS Regression were utilized to reduce the number of features from 30 to 11.
- A Random Forest Classifier model was selected based on consistent performance and accuracy (96%) for identifying cancerous tumors.

NBA MVP Predictor | [GitHub](#)

- With no criteria given to voters for selecting the MVP of the NBA, exploratory data analysis was performed on the previous 10 seasons, and the data cleaned to select important features. Correlations were evaluated to remove instances of multicollinearity.
- A Linear Regression model was built to for selecting the MVP, with the correct MVP being selected 7 of 10 seasons. 10 of 10 seasons the model selected a player that finished in the top 3 of overall voting.

Consumer Ratings of Breakfast Cereal | [GitHub](#)

- Consumer cereal ratings were predicted based on various features.
- A Logistic Regression model was constructed and delivered precision, recall, and F1 scores exceeding .80 in every category.

EXPERIENCE

DMT Solutions Group Inc Indianapolis, IN May 2012 – Dec 2020

Director - Recruiting and Client Engagement

Principal of boutique firm providing talent acquisition and consulting services. Managed remote team of 6, delivering technical resources for numerous engagements.

- Created detailed analytical reporting, KPIs, and metrics to capture internal and external trending data to initiate positive changes.
- Implemented and administered SaaS applicant tracking system and phone network to accommodate a mobile and remote team.

Pinnacle Partners Indianapolis, IN June 2006 – May 2012

Recruiting Manager / Coordinator June 2010 – May 2012

Promoted to Recruiting Manager and established new strategies and procedures for a team of 7, responsible for \$4.7 million in annual revenue.

- 125% of 2011 profit goal and 105% of 2010 profit goal.
- Developed detailed reporting and KPI tracking tools.

Sr. Technical Recruiter

June 2006 – June 2010

Recruited and placed candidates for consulting and direct hire positions.

- Led all recruiting in profitability and placements (2008, 2009, 2010).

Robert Half Technology

Northbrook, IL

Mar 2005 – June 2006

Recruiting Manager

Recruited to assist in the reestablishment of the Northern Illinois territory. Earned recognition by being a Top 10% finalist in the national "Rookie of the Year 2005" standings.

New Horizons CLC

Chicago, IL

Mar 2004 – Mar 2005

Director of Continuing Education

Managed a team of 6, accountable for \$3.1 million in annual revenue.

- Designed activity monitoring tool, enabling complete monthly sales analysis, lead tracking, and trending data collection.