# C. Douglas Marcum

#### CONTACT

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#### **PROFILE**

A curious business analytics professional dedicated to creating a bridge between data scientists and stakeholders to develop data-driven solutions. Skilled at research, data modeling, machine learning, and visualization storytelling.

#### **EDUCATION**

Master of Science in Data Science **GPA 4.00** Bellevue, NE Mar 2021 Bellevue University 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** Jun 2000 Ball State University Muncie, IN

#### CERTIFICATIONS

Data Scientist with Python - DataCamp

Certificate - Dec 2020

Python for Everybody - University of Michigan / Coursera

Certificate - Jul 2019

Customer Analytics - University of Pennsylvania / Coursera

Certificate - Jun 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,

Data Visualization: Matplotlib, Seaborn, Tableau, Plotly,

Folium, ggplot2

ML Frameworks: Scikit-Learn, TensorFlow, Keras, 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 Talent Acquisition Background - Technical and Executive Creative and Perceptive Troubleshooter **Devoted Continuous Learning** 

## DATA SCIENCE PROJECTS | GitHub

## **Breast Cancer Analysis and Prediction | GitHub**

- Reviewed the UCI Wisconsin Breast Cancer dataset and completed a thorough exploratory data analysis before model creation began.
- Reduced necessary features from 30 to 11 by utilizing Lasso Regression and OLS Regression.
- The Random Forest Classifier model provided consistent performance and accuracy (96%) in identifying cancerous tumors.

## NBA MVP Predictor | GitHub

- Conducted exploratory data analysis, generating insights into the selection process, as the NBA does not define MVP voting criteria.
- Evaluated feature correlations allowing the removal of all high multicollinearity instances.
- Implemented a Linear Regression model in R that correctly selected the MVP in 7 of 10 seasons and a player that finished in the top three of overall voting in 10 of 10 seasons.

### Consumer Ratings of Breakfast Cereal | GitHub

- Analysis of 16 features guided the predictions of consumer cereal ratings and scores.
- Constructed a Logistic Regression model that delivered precision, recall, and F1 scores exceeding .80 in each category.

#### **EXPERIENCE**

**DMT Solutions Group Inc** Indianapolis, IN May 2012 - Jan 2021

Principal of boutique talent acquisition and consulting services firm.

- Established a remote team of six, delivering technical resources for consulting engagements and direct hire placements.
- Created detailed dashboards, KPIs, and metrics to capture internal and external trending data to increase revenue by 87%.
- Implemented a SaaS applicant tracking system and phone network to facilitate a remote team, thus reducing monthly costs by \$4500.

**Pinnacle Partners** Indianapolis, IN Jun 2006 - May 2012 **Recruiting Manager / Coordinator** Jun 2010 – May 2012

Promoted to RM and refined strategies and procedures for a crossfunctional team of seven, accomplishing \$4.7 million in annual revenue.

- 125% of the 2011 profit goal and 105% of the 2010 profit goal.
- Developed detailed reporting and KPI tracking tools designed to increase production by 50%.

Sr. Technical Recruiter Jun 2006 - Jun 2010 Led IT recruiters in profitability and placements (2008, 2009, 2010).

Northbrook, IL Mar 2005 - Jun 2006 **Robert Half Technology Technology Recruiting Manager** 

Recruited to partner in reestablishing the Northern Illinois territory, which led to recognition as 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** 

Directed a team of six, generating \$3.1 million in annual revenue.

 Designed activity dashboard, enabling complete monthly sales analysis, lead tracking, and trending data collection.