

# Brian Wisniewski

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## Education

<b>The Ohio State University</b> - Columbus, OH - MTDA - Master of Data Science	<b>April 2021 - April 2024</b>
<b>The Ohio State University</b> - Columbus, OH - BA - Philosophy & Mathematics	<b>Aug 2012 - Aug 2018</b>

## Certificates

**EPIC Systems** - Clinical Data Model, Clarity Data Model, Caboodle Data Model, Cogito

**Microsoft** - WIP: Microsoft Certified: Azure Data Scientist Associate (DP-100 exam is scheduled for Sept, 2024)

## Work Experience

**The Ohio State University Wexner Medical Center** - Columbus, OH - Senior Data Analyst **Nov 2023 - Present**

- Developed proof-of-concept Azure Machine Learning Pipeline supporting cloud infrastructure transition.
- Engineered and refined labor analytics models, resulting in a 20% reduction in productivity index variance.
- Designed Tableau dashboards to inform cancer treatment decisions for tens of thousands of patients.
- Leveraged advanced SQL to conduct in-depth analysis of millions of patient records.

**The Ohio State University** - Columbus, OH - Data Visualization Specialist **Aug 2022 - Oct 2023**

- Taught large R, Python, and Tableau workshops to nearly 900 faculty, staff, and students.
- Mentored and consulted individuals and teams on data visualization and analytics.
- Developed and A/B tested website for data visualization and analytics resources, doubling user engagement.

**The Ohio State University** - Columbus, OH - Statistical Information Specialist **Oct 2019 - Aug 2022**

- Engineered relational database management systems, optimizing the warehousing of millions of records.
- Developed financial analytics dashboards resulting in the efficient allocation of millions of dollars.
- Architected complex SQL queries to drive decision-making, optimizing resource allocation.

**Bath & Body Works** - Columbus, OH - Data Analyst **Oct 2018 - Oct 2019**

- Engineered a supply chain data management application, saving hundreds of hours of e-mail correspondence.
- Conducted on-site data integrity audits, leading to 40% decreased vendor and customer DBMS variance.
- Created novel analytics dashboards for Business Operations and Supply Chain leaders, driving decision making.

**Atlas Advisors, LLC** - Columbus, OH - Data Analyst/Supply Chain Intern **May 2017 - Aug 2017**

- Engineered data warehousing solutions for confidential Special Operations' Supply Chain data.
- Engaged in client-facing troubleshooting for personnel of varying cultures and English language proficiencies.

**Kent Displays, Inc.** - Columbus, OH - Data Analyst/Process Engineer Intern **May 2016 - Aug 2016**

- Developed and implemented machine vision and data analytics to automate defect detection and removal.

## Projects (Portfolio Preview)

**DoD Grant Optimization (8-month Capstone with U.S. Airforce Office of Logistics Innovation)**

- **Objective(s):**
  - Optimize resource allocation for DoD projects using machine learning and advanced analytics.
- **Method(s):**
  - Natural language processing for keyword extraction, topic modeling, and semantic analysis.
  - Utilized TF-IDF, Logistic Regression, and other techniques for project phase classification.
- **Impact(s):**
  - Enhanced resource allocation via increased project understanding and optimized computation.

**Google Stock Price Prediction with Random Forest and Support Vector Regression:**

- **Objective(s):**
  - Determine if Random Forest or Support Vector Regression model is better for stock price prediction.
- **Method(s):**
  - Random Forest and Support Vector Regression models, evaluation with cross-validation and RMSE.
- **Impact(s):**
  - Demonstrated evidence that Random Forest may be a superior model for this use case.

**Random Forest to Target Advertising Promotions**

- **Objective(s):**
  - Identify key factors influencing customer satisfaction to target advertising promotions.
- **Method(s):**
  - Built a Random Forest model to predict customer satisfaction and identify key drivers.
- **Impact(s):**
  - Identified key drivers of customer satisfaction and a customer pool to target for advertisements.

## Skills

- R, Python, Tableau, SQL, Adobe Illustrator, Azure, Statistics and Machine Learning