

# Bogdan Tesileanu

## Data Scientist

### Contact

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### Education

#### Johns Hopkins University

M.S. in Data Science ('19 – '22)  
*Coursework: Data Science, Statistical Methods/Data Analysis, Data Visualization, Reasoning Under Uncertainty, Bayesian Stats, Algorithms for Data Science*

#### University of Florida

B.S. in Biochemistry ('13 – '16)  
*Coursework: Computer Literacy, Calculus (1,2,3), Statistics and Probability, Analytical Chemistry, Biomolecular Engineering.*

### Languages & Apps

Python, SQL, R, Java  
SPSS, Tableau, MATLAB  
MS Office Suite

### Skills

#### Regression

Linear, Polynomial, Logistic, SVR

#### Classification

KNN, SVM, Naive Bayes, XGBoost

#### Other

K-means Clustering, PCA, numpy, pandas, scikit-learn, matplotlib, seaborn, TensorFlow, Plotly

### Experience

#### Special Education Teacher

*Kesher LD / North Miami Beach, FL / Feb 2018 - present*

- Taught math and science to middle schoolers with different learning disabilities and diagnoses
- Analyzed behavior and test data of middle schoolers with disabilities to increase test scores by 12% in a 6-month period
- Conducted behavior analysis projects with over 800 daily data points to ensure proper social and emotional behavior and test different reinforcement strategies
- Compiled standardized testing and analysis on over 100 students in 5 different academic domains to assess validity of student class scores and discover learning gaps

#### Intern

*University of Florida Shands Hospital / Gainesville, FL / 2013 - 2016*

- Collaborated in grant-funded research to discover trends between treatment options and pain levels in over 400 patients
- Collected, input, and cleaned over 2000 points of patient data
- Formulated statistical analyses and data visualization to uncover patterns and used pivot tables, macros, and VLOOKUP to increase analysis efficiency by 20%

### Projects

#### Special Education Student Management System

- Implemented a database to track special-ed student information
- Created ERD, 14 tables, triggers, and procedures using MySQL
- Performed complex queries using joins and subqueries

#### Fuel Efficiency Analysis and Modeling

- Produced a model to predict fuel efficiency using 8 different features
- Leveraged Jupyter Notebooks, correlations, residuals, and bootstrap
- Finalized a model with an  $R^2$  of 0.81

#### Abalone Shell Predictions

- Design an algorithm to assess age of abalone shells based on 7 factors
- Prepared ETL, EDA, model building, and several predictions
- Generated sample predictions for probabilities and ages of next abalone found