John Sokol
DATA SCIENTIST

EXPERIENCE

Data Solutions Architect   *Mar 2018 - Present*
AtlantiCare Health System, Egg Harbor Township NJ

- Build clinical KPI Tableau dashboard solutions for physician and administrative end users. Thrombosis dashboard successfully reduced VTE-related readmissions by 10%.
- Extract, transform, and load structured and unstructured enterprise data.
- Data governance committee providing input to enhance data quality and data source integration.

Adjunct Faculty – School of Business   *Aug 2018 - Present*
Stockton University, Galloway NJ

- Teach conceptual data visualization best practices, statistics, Tableau and RStudio to 26 undergraduate business analytics students.
- Employ interpersonal skills to communicate content effectively and teach how to develop research methodologies to answer data driven questions.

Data Consultant   *Apr 2018 – Present*
RE/MAX of Long Beach Island, Ship Bottom NJ

- Data mine public records to profile demographics of potential real estate clients.
- Manipulate data with Python and build Tableau dashboards that deliver key business insights for secondary home ownership.

PROJECTS

Predicting Heart Disease with Machine Learning

- Python logistic regression model; 14 features (age, cholesterol, sex, blood pressure, years as smoker, etc), 375 observations tested with 10-fold cross validation for 78% predictive accuracy.
- Frontend Tableau GUI to input patient data by clinician to return likelihood of heart disease presence.

Super Bowl Tableau Dashboard

- Interactive Tableau dashboard depicting game progression vs. win probability.
- Visualization solution identifies the key plays and their impact on each game.

Perceptron Implementation

- Code from scratch separation of two linearly distinct classification categories. Elaborates upon importing data, exploratory data analysis, step functions, weights and bias, and label accuracy.

EDUCATION

MS Data Science & Strategic Analytics   *Aug 2018*
Stockton University, Galloway NJ   *GPA: 4.00*
Relevant Topics: Machine learning, statistics, data visualization

BS Biochemistry, computer science minor   *May 2017*
Stockton University, Galloway NJ   *GPA: 3.84*
Activities: NCAA Track & Field, Resident Assistant, Mathematics Tutor

CONTACT

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SKILLS

Languages
Python
RStudio
Java

Frameworks/Packages
Pandas
NumPy
Tidyverse
R markdown
Scikit-learn
Keras
Excel

Visualization
Matplotlib
ggplot
Tableau
Adobe Illustrator
Final Cut Pro

Database Management
Microsoft SQL Server
SQL Vertica

Machine Learning

Regression
Classification
Feature engineering
Model selection