Kiersten Johns

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DATA SCIENTIST

Passionate educator turned dynamic data scientist, I am dedicated to transforming raw information into actionable insights. With a strong foundation in mathematics cultivated during my tenure as a high school math teacher, coupled with hands-on experience as a data analyst, I bring a unique blend of analytical rigor and pedagogical skill to the world of data science.

SKILLS

- **Programming Languages:** Git, Python, R, SQL
- **Python Libraries:** Matplotlib, Numpy, Pandas, Scikit-Learn, Seaborn
- **Machine Learning:** Classification, Feature Engineering, NLP, Neural Networks, Predictive Analytics Tools, Regression
- **Software:** Google Suite, JupyterLab, Microsoft Office, Slack, Tableau, Zoom

DATA SCIENCE PROJECTS

Book Recommender and Classifier | GitHub   12/2023
- Designed and implemented a robust book recommender and classifier system.
- Developed a user-friendly interface for seamless interaction with the classifier system.
- Employed feature engineering and preprocessing methods to enhance the quality of input data, resulting in reliable predictions and an accuracy rate of 97.4%.

Educators and Mental Health: Using Web API's and NLP For Predicting | GitHub   10/2023
- Integrated Natural Language Processing (NLP) techniques to analyze and extract valuable insights from textual data received through the Reddit API.
- Implemented secure authentication mechanisms and data validation to ensure the reliability and security of the web API.
- Explored background research regarding our nation's educator's mental health and health insurance.
- Constructed a predictive model utilizing MultinomialNB that achieves a 97.59% accuracy in predicting whether a mental health help inquiry originates from an educator.

EXPERIENCE

General Assembly, Data Science Immersive   *Remote, 09/2023 - 12/2023*
- Successfully completed a 13-week, 500+ hours course of expert-led instruction in Data Science skills including Python programming, data visualizations, statistical modeling and supervised and unsupervised machine learning.
- Conducted exploratory data analysis, created visualizations to understand data, and performed data cleaning and feature engineering on large datasets to prepare for modeling.
- Developed projects to apply hands-on learning of building, tuning and evaluating models for regression, classification, natural language processing, and neural networks to develop models that best solve specific business problems.

UMZU, Marketing Data Analyst   *Remote, 06/2021 - 12/2022*
- Analyzed UMZU's personal health product sales data using statistical techniques and visualization tools to uncover trends.
- Constructed comprehensive reports and dashboards to communicate marketing performance metrics to the members of the marketing team.
- Automated daily data pulls using Parabola, giving back 12.5% of a work-day's time.

Ramona High School, Secondary Mathematics Teacher   *Ramona, CA, 08/2018 - 06/2021*
- Developed and implemented comprehensive lesson plans for Math I, Math II, and PreCalculus courses, fostering an engaging and effective learning environment to 675+ students.
- Integrated technology, such as interactive whiteboards and educational software, to enhance lesson delivery and student engagement.
- Collaborated with student success teams to create, launch, and refine engaging and responsive curriculum for students at all levels.
- Analyzed student growth and success on a weekly, monthly, and semesterly basis via direct and indirect measures.

Oceanside Collegiate Academy, Secondary Mathematics Teacher   *Mt. Pleasant, SC, 08/2016 - 06/2018*
- Utilized diverse teaching methods and resources to accommodate various learning styles and ensure student comprehension of mathematical concepts.
- Supported and advised over 150 students in grades 9-12 over a 2-year period.
- Taught multiple sections of Algebra I, Geometry, Trig/PreCalc, and ACT/SAT Prep.

EDUCATION

General Assembly, Data Science Immersive   *Certificate: 12/2023*
The Pennsylvania State University, B.S Secondary Mathematics Ed.   *State College, PA, Graduated: 05/2016*