John Okoniewski

Education

MICHIGAN STATE UNIVERSITY East Lansing, MI

B.S. in Computational Data Science. GPA 3.61. May 2023

Relevant Coursework: Intro to Machine Learning, Intro to Artificial Intelligence, Big Data Analysis, and Data Visualization Principles and Techniques.

Experience

MICHIGAN STATE UNIVERSITY East Lansing, MI

Undergraduate Teaching Assistant August 2021 - April 2023

Conducted individual and group calculus instruction for approximately 60 students per semester, totaling over 300 teaching hours. Designed and delivered engaging lectures, facilitated classroom discussions and activities, and provided one-on-one assistance to students to enhance their understanding and mastery of calculus concepts.

DELTA DENTAL Okemos, MI

Population Health Management Intern July - September 2022

Independently conducted an analysis of dental data to identify key outcome indicators for a case study. Leveraged expertise in Python, R, and SQL to create advanced programs that extracted and analyzed data, and created visualizations using Tableau to effectively communicate findings. Successfully classified 7 key outcome indicators.

A-Z SOLUTIONS Brighton, MI

Founder May 2020 - August 2022

Established a company that provided essential assistance to the local and surrounding communities during the initial outbreak of Covid-19. Leveraged my personal skills and expertise to guide my network of associates, enabling them to identify and solve real-world problems in a timely and effective manner. Contributed to the improvement of the economic vitality of the area by creating jobs and supporting a positive impact on the local community.

MICHIGAN STATE UNIVERSITY Cahutia, Costa Rica

Community-Engaged Designer May 2021

Directed the spending of $10,000 and designed and implemented a technological infrastructure that enabled distanced learning. Collaborated with three other students to develop and deliver a hands-on solution that facilitated access to education for 16 marginalized individuals. Enabled greater access to education for individuals who may have otherwise been excluded from traditional learning environments, helping to build a more equitable and inclusive community.

Technical Skills

Programming: Python (Numpy, Pandas, SciKit, Tensorflow, and PyTorch), R, SQL, C++, Hadoop, and Spark.
Relevant Software: Tableau, PowerBI, AWS, Excel, and PowerPoint.
Operating Systems: MAC OS, Windows, and Linux.

Research Experience

MICHIGAN STATE UNIVERSITY East Lansing, MI

Analysis of Modeling Techniques for Country Image Classification August - December 2022

Collaborated with a team to design and implement a machine learning model for country image classification. Developed two multi-model pipelines to improve the accuracy of the model, including an SVM with an autoencoder and a CNN based on VGG-16 architecture. Successfully applied these techniques to achieve high accuracy rates in predicting the origin country of images, demonstrating the potential for machine learning in the field of computer vision and image classification.

Leadership

MICHIGAN STATE UNIVERSITY JUDO CLUB East Lansing, MI

President May 2022 - May 2023

Coordinated club finances, member recruitment and retention, tournaments, demonstrations, and fundraising. Ensured proper safety protocols were being met at all times. Represented the club during interactions with the university.