Jonah Rockey

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EDUCATION

Indiana University – Purdue University Indianapolis, Indianapolis, IN — December 2022
- Master of Science in Applied Data Science with Specialization in Sports Analytics — GPA – 3.93

Purdue University, West Lafayette, IN — May 2021
- Bachelor of Science in Statistics with Math Emphasis — GPA – 3.94

EXPERIENCE

Susan G. Komen Tissue Bank, Indianapolis, IN — May 2022 – Aug 2022
Database Development Intern
- Worked under the head informatics programmer at Komen Tissue Bank to assist with various database development projects in their internal web application for managing tissue samples.
- Developed data-driven web applications using Python, HTML, and Django to efficiently store and display biomedical data.
- Conducted testing and debugging of database-related code to ensure data integrity and accuracy, identifying, and fixing issues in a timely manner.
- Maintained and updated existing web pages and applications, using version control tools such as Git.

Purdue University Athletics, West Lafayette, IN — Aug 2020 – May 2021
Undergraduate Data Science Researcher
- Collaborated with the Purdue Athletics Social Media team to automate their data collection and determine what type of posts were the most effective for each platform.
- Utilizing R, Python, SQL, and Tableau, our group's analysis helped the social media team increase interactions on Twitter, Facebook, and Instagram by 22%.

SKILLS

Programming and Data Tools: Python, R, SQL, HTML, CSS, JavaScript, Tableau, Apache Spark (PySpark), Keras, NumPy, Pandas, TensorFlow, Scikit-learn, D3, Django, Microsoft Excel, Git

Data Analytics and Machine Learning: Applied Statistics, Data Modeling, Neural Networks, Deep Learning, Natural Language Processing, Data Visualization

Soft Skills: Strong Communication, Creative Problem Solving, Attention to Detail, Critical Thinking

PROJECTS

Deep Learning Model for Music Genre Classification – GitHub Link — December 2022
- Built a convolutional neural network model with the goal of using audio input to predict musical genre.
- This was done by converting the music audio into a visual representation that the neural network could analyze.
- Constructed in Python using TensorFlow, Keras, and NumPy.
- Achieved greater than 70% accuracy when classifying music into 10 different genres using the audio input alone.

Madden 23 Player Data Visualization Dashboard – GitHub Link — October 2022
- Designed a visualization dashboard to investigate player data from the most recent video game based around the National Football League, Madden 23.
- Utilized data exploration skills to analyze the Madden 23 dataset and create meaningful visualizations to transform the data into useful information.
- Created in HTML, CSS, and JavaScript by using D3, a JavaScript data visualization library.