

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
Web Development Intern	

- Worked under the head informatics programmer at Komen Tissue Bank to assist with various web 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

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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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.	