Joshua Elms

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EDUCATION

Indiana University, Bloomington, IN   December 2023
Bachelor of Science in Data Science   Cumulative GPA: 4.0/4.0
Specialization in Foundational Data Science

PROFESSIONAL EXPERIENCE

Bloomington Tutors, Bloomington, IN   September 2021 -- Present
Calculus Tutor
- Maintain in-depth knowledge of teaching methods for all courses up to Calculus I
- Communicate regularly with clients with to schedule sessions that fit their needs

STUDENT INVOLVEMENT

Hutton Honors College (HHC), Bloomington, IN   August 2021 -- Present
- Participating in smaller, faster-paced Data Science courses offered through the Honors school

Residence Hall Executive Board, Bloomington, IN   August 2021 -- Present
- Serving as Vice President of Finance for Teter Residence Hall
- Jointly responsible for budgeting of ~$6000 for resident engagement events

Projects

K-Means Clustering Algorithm Visualization Tool
- Use numerous Python libraries to implement K-Means Clustering on random or custom data
- Programmatically generate iterative visualizations of algorithm output

Comparison of Biased and Unbiased Methods for Calculating Sample Variance
- Implement two variance formulas and generate visualizations to gauge their accuracy

TECHNICAL SKILLS

Languages: Intermediate in Python, R - Beginner in with HTML/CSS, SQL, Bash
Technology/Tools: Proficient with Mac OS - Familiar with Linux, Git