AKSHAY VENKATESAN

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EDUCATION

Columbia University New York, NY
MS in Data Science Expected Dec 2024
Courses: Applied Machine Learning, Applied Deep Learning, Algorithms for Data Science, Causal Inference, Statistical Inference, Computer Systems for Data Science

University of Washington Seattle, WA
BS in Applied Mathematics, Minors in Data Science and Computational Finance Mar 2023
Dean's List every quarter
UW Purple and Gold Scholar
Courses: Artificial Intelligence, Database Management, Statistics and Data Analysis, Data Structures and Algorithms

WORK EXPERIENCE

Walmart Connect Hoboken, NJ
Data Science Intern June 2024 – Aug 2024
- Developed a Markov Chain ad attribution model to measure impact of ads on customer purchase rate
- Streamlined model deployment by creating reusable Python MarkovAttribution Class which uses filtered SQL data stacks
- Designed an estimation technique for the Markov attribution model which improved run time by 50%
- Generated Attributed Revenue, Share, and ROAS reports for Markov, rule-based and siloed approaches to increase company understanding of: (1) ad spend, (2) effect of duplicate ad credits, (3) adopting consistent attribution methodology
- Applied Markov model across 6 brands, each at 3 sales channels and 2 levels of granularity to determine ad performance

Pilotly San Jose, CA
Data Science Intern Sep 2022 – Aug 2023
- Automated statistical significance testing with Python and increased company efficiency by 10%
- Produced quad maps in Excel displaying effectiveness of TV shows 1 month after launch date
- Optimized data storage with innovative method of detecting and eliminating bad/unusable data in Python

Rivet San Jose, CA
Data Science Intern June 2022 – Sep 2022
- Performed ETL (Extract, Transform, Load) processes in AWS, Segment, and PostgreSQL
- Created new data tables in JavaScript to store incoming data
- Analyzed data from database in PostgreSQL to calculate engagement metrics
- Improved quality of life for Rivet content creators by determining most loyal fans using engagement metrics in Python

PROJECTS

Columbia University Robotic Manipulation and Mobility Lab New York, NY
Orthosis Error Simulation Sep 2023 – May 2024
- Simulated error in orthosis attachment to arm to reduce patient risk of injury in PyChrono
- Visualized force thresholds over contact patches to understand how slight perturbations affect orthosis efficacy

University of Washington Design, Build, Fly Club Seattle, WA
Package Deployment Lead Sep 2021 – May 2022
- Proposed a new rack and pinion package deployment system inside a RC plane to deploy 5 pressure sensor packages
- Programmed deployment ramp to open/close after each package is delivered, maximizing competition score, using Arduino

ADDITIONAL SKILLS

Programming: Python, SQL, R, Java, MATLAB
Certifications & Training: Google Data Analytics Certificate from Coursera 2021