RISHI MOHAN

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EDUCATION

UNIVERSITY OF SAN FRANCISCO   *San Francisco, CA*
Master of Science in Data Science   *Expected June 2024*
Relevant Coursework: Machine Learning, Statistical Modeling, Data Analysis, SQL

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN   *Champaign, IL*
Bachelor of Science in Industrial Engineering   *May 2023*

RELEVANT EXPERIENCE

METAPHOR DATA   *San Francisco, CA*
Machine Learning Engineer   *October 2023 – Present*
- Using LlamaIndex integrations and custom connectors, extend metadata crawlers to index client knowledge bases for platform universal search development and improvement.
- Develop Slack and Teams integrations to summarize conversations using Azure ChatGPT and include in embedding set for additional search resources.
- Build and test document vector embedding pipelines using OpenAI text models and MongoDB Atlas vector search to improve the quality of semantic search query answers.

ILLINI SOLAR CAR   *Urbana, IL*
Director of Operations   *August 2019 – May 2023*
- Managed network of team alumni to act as cross-functional advisory board for vehicle design & operational decisions while collaborating with team leadership.
- Handled operational tasks and financials, managing $100k+/yr. in cash & material through 501c3.
- Coordinated relationships with over 60 corporate and university sponsors to negotiate support agreements between $5,000 and $35,000 in value.

EATON, VEHICLE GROUP   *Kearney, NE*
Operations Management Intern   *May 2022 – August 2022*
- Gathered data and tracked theoretical production capacity of 25+ part numbers across 6 production lines using 9 years of hourly production output data.
- Maintained production output database and report generation process for process owners and executives, saving process owners 10h / week.
- Visualized key line performance data indicators to help identify root cause for production shortfalls & target potential improvements including capital investment, machine rebuilds, and operator retraining using R.

SELECT PROJECTS

CYCLE TIME ANALYSIS STUDIES – EATON   *July 2022*
- Built a multiple linear regression model utilizing shift production data in a large manufacturing environment to generate more accurate forecasts for true shift production and set more appropriate production goals.
- Modeled and visualized true shift performance to provide executive clarity on annual performance changes, target areas for improvement, and alleviate scheduling complexity.
- Conducted time-series analysis to identify major contributors to production efficiency and output shortfalls.

SENIOR ENGINEERING CAPSTONE – JULIAN ELECTRIC   *December 2022*
- Worked with an industry partner to identify methods to reduce waste in the production process by phasing out destructive testing methods for ultrasonically welded cable assemblies of dissimilar metals.
- Designed a machine vision system with rapid prototyping methods to fixture testing elements for vision-based testing from multiple perspectives.
- Wrote a Python computer vision algorithm using transformed pixel color counts and openCV contour detection to analyze differences in welded terminals and determine go/no-go on weld quality of cable.
- Performed statistical testing on the vision testing methodology to compute type-I and type-II error probabilities and associated costs for the industry partner.