


# RISHABH SINGH

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## Education

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### University Of Michigan – College of Literature, Science, and The Arts

Ann Arbor, MI

*B.S in Data Science | GPA: 3.71/4*

*August 2023 - May 2027*

- **Courses:** Statistics and AI, Data Structures and Algorithms, Discrete Math, Statistical Computing, Calculus III, Linear Algebra, Applied Regression Analysis, Introduction to Probability, Programming and Introductory Data Structures
- **Organization/Leadership:** Michigan Sports Analytics Society, Engineering Business Group. Creator of Good Karma Engineering, a Not-For-Profit focused on 3D printing prosthetic limbs for those in need. Shipped 50+ fully functional arms and legs to people across the United States, England, and India

## Experience

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### AfterQuery Experts

Ann Arbor, MI

*Data Analyst*

*August 2025 - Present*

- Developed Python-based ETL pipelines processing 100k+ weekly prompt-response records, human feedback scores, and detailed usage logs, enabling reliable analysis, dataset quality assessment, and AI dataset generation workflows
- Built and maintained internal APIs and supporting data tooling to securely deliver cleaned, validated, and versioned datasets to enterprise AI research teams, including Berkeley AI Research and Stanford AI Lab
- Improved data cleaning, validation, and preprocessing workflows in Python by redesigning quality checks and transformation logic, reducing end-to-end pipeline runtime by approximately 25% while increasing confidence in downstream analytical and modeling results

### Academic Analytics

New York, NY

*Data Analyst*

*June - September 2025*

- Analyzed IRIS vendor spend transaction data using Python across 135+ universities, covering over \$10B in total institutional spending to identify vendor concentration risks, institutional spending patterns, and categorical trends to support data-driven product and risk assessments. Presented findings to senior executives and product leaders
- Extracted, cleaned, and analyzed SEC 10-K and 10-Q filings in R to evaluate vendor financial health through revenue growth trajectories, leverage ratios, and disclosed risk factors, enabling comparative analysis across vendors
- Automated recurring reporting and analytics pipelines in Python, reducing data processing time by approximately 35% and cutting manual reporting effort by 10+ hours per week for recurring client deliverables

### The Coder School

Long Island, NY

*Code Coach*

*May - August 2024*

- Led curriculum development and technical outreach initiatives with high schools in North Carolina and California, presenting program offerings to administrators and driving adoption resulting in approximately 25% revenue growth
- Designed and organized six weeks of original lecture material, including coding labs and problem sets, covering programming fundamentals, applied software development concepts, and introductory professional development topics
- Delivered instruction in C++ programming and web development fundamentals to 20–30 students per cohort through project-based learning, interactive debugging exercises, and applied problem-solving activities

## Personal Projects

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### SaaS Growth Analytics Dashboard

- Built a Python-based analytics dashboard to track core SaaS metrics including MRR, churn, CAC, funnel conversion, and cohort retention using event-level customer data.
- Generated executive-ready insights by analyzing retention trends, acquisition channel efficiency, and revenue concentration to identify growth risks and optimization opportunities.

### NFL Penalty Margin and Win Analysis

- Built an interactive R Shiny dashboard analyzing NFL play-by-play data from 2018–2023 to evaluate the relationship between penalty margin and win percentage across teams.
- Performed exploratory analysis and z-score outlier detection to identify teams and seasons where penalties had an outsized impact on game outcomes, supporting data-driven performance insights.

## Technical Skills

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**Languages:** Python, R, SQL, C/C++

**Developer Tools:** Git, GitHub, Linux/CLI, PyTorch

**Data & Analytics:** Pandas, NumPy, scikit-learn, Streamlit, R Shiny

**Web:** HTML, CSS