Shriyansh Singh

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SUMMARY

Data Scientist with expertise in statistical analysis, data curation, and exploratory data analysis. Experience designing monitoring systems for data health and implementing analytics pipelines using **SQL**, **Python**, and **R**

PROFESSIONAL EXPERIENCE

Financial Data Scientist *April 2024 - Dec 2024*
Hyphenova Analytics *Los Angeles, CA*

- **Designed** robust data monitoring systems using **Python** and **SQL** that detected anomalies in real-time data feeds, reducing false negatives by 76% and improving data reliability
- **Implemented** statistical methods including time series analysis and anomaly detection that identified trading pattern shifts, enabling proactive system adjustments
- **Developed** comprehensive **Pandas**-based analysis pipelines that automated daily health checks across 50+ data sources, generating detailed visualizations and exception reports
- **Collaborated** with research teams to translate ambiguous inquiries into precise analytical specifications, producing clear reports that informed strategic decision-making

Data Analytics Associate *May 2022 - Oct 2022*
Enterprise Financial Technologies *Mumbai, India*

- **Curated** complex financial datasets through comprehensive cleaning, validation, and transformation using **SQL** and **R**, ensuring data quality for downstream analysis
- **Conducted** exploratory analyses on market data that identified previously undetected patterns, generating actionable insights for trading system enhancements
- **Created** interactive dashboards in **R Shiny** that visualized system performance metrics, enabling stakeholders to quickly identify and address operational inefficiencies
- **Established** data validation protocols in production environments using **Linux shell scripts** that automatically flagged data inconsistencies and triggered appropriate alerts

DATA SCIENCE PROJECTS

Financial Data Monitoring System | *Python, Pandas, SQL, Airflow, Git* *Jan 2024 – Apr 2024*

- **Architected** an end-to-end system that monitored the health of market data feeds, detecting statistical anomalies and data quality issues before they impacted production systems
- **Implemented** automated **Airflow** pipelines that performed daily statistical analyses, generating comprehensive reports with visualizations for stakeholder review
- **Developed** a mathematical framework for quantifying data drift and establishing dynamic thresholds that adapted to changing market conditions, minimizing false positives

Statistical Analysis Framework for Trading Systems | *R, SQL, Linux, Git* *Sep 2023 – Dec 2023*

- **Designed** a statistical analysis toolkit in **R** that systematically evaluated trading algorithm performance under various market conditions
- **Created** robust **SQL** queries that efficiently extracted and aggregated terabytes of historical trading data for retrospective analysis and pattern identification
- **Established** reproducible research practices using **Git** version control and **R Markdown** that enabled collaborative analysis and streamlined knowledge transfer

TECHNICAL SKILLS

Data Analysis: Statistical Methods, **Exploratory Data Analysis**, **Anomaly Detection**, Time Series Analysis, Hypothesis Testing
Programming: Python, **R**, **SQL**, **Bash**, Shell Scripting
Tools & Libraries: Pandas, NumPy, **R Shiny**, ggplot2, **Git**, **Airflow**, Jupyter, dplyr
Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Interactive Dashboards
Computing: Linux/Unix, Cloud Computing, Distributed Computing
Financial Analysis: Market Data Analysis, Trading Systems, Risk Metrics, Performance Analysis

EDUCATION

Indiana University Bloomington *Aug 2023 – May 2025*
Master of Science in Data Science *Indiana, United States*

- Specialization: Statistical Analysis, Quantitative Methods, Financial Analytics
- Relevant Coursework: Statistical Learning, Time Series Analysis, Computational Statistics, Quantitative Finance