

Rahul Kumar Singh

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Postgraduate Statistics student with hands-on experience in data analysis, dashboard development, and performance reporting. Skilled in R, Python, SQL, Power BI, and Tableau, with a strong track record building KPI dashboards, automating reporting pipelines, and delivering actionable insights to support strategic decision-making and optimisation. Experienced in communicating findings clearly to both technical and non-technical audiences.

Education

Year	Degree	Institution	Result
2024–2026	Master's in Statistics	Amity University, Noida	8.06 CGPA
2021–2024	Bachelor of Science (Statistics)	St. Xavier's College, Ahmedabad	7.1 CGPA
2019–2020	Class XII (CBSE)	DAV Model School, Digwadih	85%
2018–2019	Class X (ICSE)	De Nobili School, Digwadih	82%

Key Coursework: Linear regression, hypothesis testing, statistical quality control, sampling theory, inference, stochastic processes, biostatistics, modeling and simulation, design of experiments, ANOVA, operations research, econometrics, Python, R.

Skills

Category	Skills
Programming	R, Python, SQL, NumPy, Pandas, Matplotlib, Scikit-learn, MATLAB, LaTeX
Data Tools	MS Tools, Power BI, Tableau, Excel, Streamlit, Data Visualization, Dashboard Creation, Machine Learning
Statistical tools	Econometrics, Regression, Linear regression, Logistic regression, Predictive Modeling, Hypothesis Testing, Survey Analysis, Data Validation, Estimation, Scenario Analysis, Forecasting, Time Series Analysis
Analytics	Campaign & performance reporting, Marketing analytics, Attribution analysis, Optimisation, KPI tracking
Research Skills	Data Analysis, Empirical and Institutional studies, Data Cleaning, Literature Review, Report Writing
Soft Skills	Problem-solving, Critical thinking, Logical Reasoning, Communication, Stakeholder management

Experience

Data & Analytics Intern – Ministry of Statistics and Programme Implementation (MoSPI) May 2025 – Jul 2025

- Analysed 50,000+ macroeconomic and survey data records to evaluate policy effectiveness and support strategic decision-making.
- Processed, cleaned, and validated raw survey data using R, ensuring consistency and accuracy for reliable performance reporting.
- Developed a Power BI dashboard tracking 10+ KPIs, enabling real-time performance monitoring for stakeholder reporting.
- Prepared a comprehensive analytical report translating complex findings into actionable recommendations for stakeholders.

Community Outreach Intern – Aashraya NGO Jul 2025 – Oct 2025

- Coordinated education and community development initiatives across 10+ slum areas, impacting multiple beneficiary groups.
- Organised fundraising campaigns raising Rs. 1,00,000+ to fund construction of a community computer lab.
- Facilitated communication between volunteers and stakeholders, supporting smoother execution of activities.

Projects and Academic Research

Automated Dashboard for Real-Time Sales Insights: Built a Power BI dashboard integrating 6 data sources (200,000+ records) via SQL-based ETL pipelines to deliver real-time KPIs and automate routine performance reporting — applicable to campaign performance measurement and marketing attribution.

Predictive Model for Optimal Player Selection in Fantasy Cricket: Developed an interactive Streamlit app integrating 20+ IPL datasets spanning 5 years of season data; implemented weighted scoring logic to generate optimal team selections with visualisation and CSV export.

IPL Match Simulation & Auction Prediction (Extension): Extended the fantasy cricket model to simulate matches b/w 2 teams and get the match outcomes with Monte Carlo methods and we also predicted to auction value of each player to know which players are overvalued and which are undervalued, achieving $R^2 = 0.685$ and RMSE of 3.35 crore on auction price prediction

Evaluation of “Training and Motivation Tour for Livestock Keepers” Scheme: Conducted survey-based analysis; applied regression and hypothesis testing to measure scheme outcomes and generate actionable insights for optimisation — analogous to campaign measurement and attribution reporting.

Agricultural Profit Optimisation using ML & DoE: Developed a Random Forest model ($R^2 = 0.69$) on a 20-year weather-yield panel dataset using seasonal features. Applied Design of Experiments to simulate strategies and identify the profit-maximising plan — a forecasting and scenario analysis framework applicable to media budget allocation and brand growth optimisation.

DataDrishti (Ongoing): Developing an end-to-end analytics platform using Python, machine learning, and Streamlit that automates data profiling, anomaly detection, and insight generation — delivering 10x faster analysis compared to manual workflows; integrated an LLM via API to produce natural language reports from analysis outputs.

Achievements

- Presented research on *Automated Real-Time Sales Analytics* at Sharda University's International Conference (2025).
- Served as NSS volunteer: managed social media communications, photography, and community outreach initiatives.
- Led the Decoration Core Team for the Annual Cultural & Technical Festival, overseeing stage design and thematic visual planning.