

# Rajat Singh

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## EDUCATION

**Master of Science in Business Analytics and Artificial Intelligence**, The University of Texas at Dallas Jan '25 — Present

- Relevant Coursework : Business Analytics with R, Advanced Statistics, Database foundation, Big Data Systems

**Bachelor of Technology in Civil Engineering**, Manipal Institute of Technology, India Jun '17 — Jul '21

- Minor Specialisation in Computer Science

## SKILLS

**Programming & Querying** : Python, R, SQL (PostgreSQL, MySQL, SQL Server), MongoDB

**Data Modeling & ETL** : HiveQL, Spark, AWS EMR, Data Warehousing, Star Schema Design, ETL Pipelines

**Business Intelligence & Analytics Tools** : Power BI, Tableau, Excel (Pivot Tables, Macros, Lookups), Jupyter, Streamlit

**Statistical & Analytical Methods** : Regression, Hypothesis Testing, A/B Testing, Causal Inference, Time Series Forecasting

**Machine Learning & AI** : NLP, Deep Learning (TensorFlow, PyTorch, Scikit-learn), Predictive Modeling

## PROFESSIONAL EXPERIENCE

### Junior Data Scientist

Jun '22 — Dec '24

Softpro India Computer Technologies

Lucknow, India

- Constructed a comprehensive set of SQL queries aligned with coding standards that decreased ingestion time by 35%, enabling faster data analysis and improving leadership access.
- Automated data models and reporting workflows using SQL + Python, applying data engineering principles to cut manual reporting time by 40% and enable real-time data analytics.
- Transformed raw feedback and engagement logs into structured datasets, supporting machine learning pipelines and enhancing product engineering outcomes through improved prediction accuracy.
- Collaborated with engineers and content teams to conduct A/B testing experiments, applying statistical methods within agile methodologies to optimize product features and enhance UX.
- Contributed to ML project pipelines by preprocessing large-scale education data and supporting experimentation workflows.

### Data Science Intern

Jan '22 — Jun '22

Softpro India Computer Technologies

Lucknow, India

- Cleaned and transformed 100K+ student behavior records, improving dataset reliability by 20% for downstream BI analytics, digital technology projects, and decision support.
- Applied statistical modeling and regression analysis in Python during internships, improving prototype churn model accuracy to 80% while demonstrating passion for technology.
- Designed SQL-based dashboards and exploratory analysis reports, uncovering key churn patterns that informed product management strategies, supported user research, and ensured data privacy.

## PROFESSIONAL PROJECTS

### Softpro Analytics - Sentiment & Sales Insights, Softpro India

Jun '23 — Sep '23

- Built a comprehensive end-to-end BI solution integrating audio transcripts with CRM logs via ETL pipelines (Python, SQL, Whisper, Hugging Face), applying data engineering practices to reduce manual reporting effort by 80%.
- Designed and deployed interactive dashboards in Streamlit + Plotly with drill-down filters (location, tech stack, sentiment trends), combining UX principles and data analytics to enhance stakeholder visibility and decision-making.
- Implemented a recommendation engine using comprehensive data science techniques, statistical analysis, and text mining to surface recurring objections (fees, timing, placement), generating actionable BI insights that improved conversions.
- Scaled the system to handle 1,000+ logs and multi-GB audio data, ensuring reliability, scalability, and performance optimization for enterprise use while following coding standards and agile methodologies.

### GenAI Financial Analyst, HackAI 2025 (LTIMindtree Challenge)

Apr '25

- Built a RAG pipeline using GPT-4o to extract boardroom-level insights from 100+ page annual reports with accurate page citations.
- Developed metadata tagging to highlight material ESG risks and filter out corporate fluff.
- Designed chunking strategies to preserve context across lengthy financial documents, improving response relevance.

## ACHIEVEMENTS

- Awarded the Dean's Excellence Scholarship at the University of Texas at Dallas for academic distinction.
- Secured 2nd Place at AIMD Presentation Night for developing a Parkinson's Detection AI project.