

RAJAT KAPGATE

Open to Relocation | +1 (812) 553-2822 | rkapgate@gmail.com | linkedin.com/in/rajat-kapgate | github.com/rajatk9962

SUMMARY

Data Analyst with 3+ years of experience delivering end-to-end analytics from raw data to dashboards and decision-ready insights. Strong in SQL and Python with BI tools (Tableau, Power BI/DAX) and experience integrating multi-source datasets, building KPI frameworks, and running segmented variance/root-cause analysis. Proven impact including a 15% engagement lift, a \$150K+ reinvestment decision, and \$200K+ cost reduction.

TECHNICAL SKILLS

- Programming Languages:** Python, SQL, R
- BI & Visualization:** Tableau, Power BI (DAX), Excel (Power Query/Power Pivot), Looker Studio
- Data & Analytics:** Pandas, NumPy, GeoPandas, Matplotlib, Seaborn, A/B testing, forecasting, KPI design
- Data Platforms:** BigQuery, Snowflake, Redshift, PostgreSQL, MySQL, MongoDB
- Pipelines & Cloud:** Airflow, dbt, Spark, Docker; AWS (S3/Glue/Lambda), Azure (Databricks/Data Factory), GCP
- Delivery:** Jira, Confluence, Agile/Scrum, SDLC

PROFESSIONAL EXPERIENCE

Analyst - Strategic Patient Insights Piedmont Healthcare, Atlanta, GA	August 2025 – Present
<ul style="list-style-type: none">Enabled a confident \$150K+ reinvestment by diagnosing maternity campaign underperformance by crafting SQL queries, blending provider KPIs, ICD-10 EHR encounters, and national birth-rate benchmarks with segmented variance analysis.Spearheaded development of Open Insight, a real-time patient review datastore, using dbt to build validated marts linking reviews with EHR attributes and the GPT-4o API to summarize reviews, cutting reporting cycles by 50% across 5 specialties.Built 2 interactive Tableau dashboards analyzing 1M+ office visit records from Epic EHR spanning 3 years to identify trends and seasonal patterns, enabling marketing teams to optimize campaign timing and improve engagement by 15%.	
Research Data Scientist Indiana University School of Optometry, Bloomington, IN	May 2024 – Present
<ul style="list-style-type: none">Analyzed 500+ GB of infant head and eye movement data (NIH Grant EY032897) to identify early markers of eye disorders; performed ANOVA across five age groups, revealing statistically significant motor control variations.Preprocessed time series data using techniques like IQR filtering, rolling sum, low pass filtering and non-max suppression to isolate meaningful head motion segments, enhancing data quality by 40%.Engineered advanced data visualizations, including head movement reconstruction with Unity and Open3D, KDE, polar plots, and correlation maps to analyze infant head dynamics.	
Data Scientist Boehringer Ingelheim Pharmaceuticals, Ridgefield, CT	May 2024 – Nov 2024
<ul style="list-style-type: none">Implemented a FinOps cost analytics dashboard in Streamlit integrating multi-cloud cost data (AWS, Azure, GCP); built and monitored Airflow pipelines to ingest up to date spend datapoints, with root-cause analysis to reduce compute costs by \$200K+.Accomplished a 70% reduction in reporting turnaround for the drug Jardiance by leveraging automation using Large Language Models, LangChain CSV agents, Azure Chat API, and Python-pptx, leading to an increase in decision making efficiency.Orchestrated an ETL pipeline to process 2M+ drug price data points from the Nuro API, optimizing SQL workflows with window functions on AWS RedShift, automating with cron jobs, and storing results in AWS S3.Devised a Retrieval-Augmented Generation (RAG) system on proprietary organizational data using Azure GPT-4o and FAISS for vector-based similarity search, cutting research effort by 40%.	
Data Analyst TCS Research, Mumbai, MH	Jun 2021 – Aug 2023
<ul style="list-style-type: none">Improved employee retention by 5% by leveraging SAP data to integrate KPIs (attrition rate, turnover, tenure) with multivariate forecasting, identifying, and remediating 3 critical attrition drivers and informing targeted retention strategies.Led a Digital Pathology cloud migration by building a GCP Dataflow ETL pipeline processing 100M medical records into BigQuery; delivered Power BI/DAX dashboards for operational visibility and improved team delivery efficiency by 40%.Developed Excel-based financial models incorporating macros and advanced functions (VLOOKUP, INDEX-MATCH) to automate team-level expense reporting, increasing accuracy and reducing manual effort by 40%.	

EDUCATION

Indiana University Bloomington, USA	Aug 2023 – May 2025
Master of Science in Data Science	GPA: 3.94/4.00
University of Mumbai, India	Aug 2017 – Jun 2021
Bachelor of Engineering in Computer Engineering	GPA: 3.50/4.00

ACADEMIC PROJECTS

A/B Testing & Marketing Campaign Optimization

- Conducted A/B testing and regression analysis on 365-day Facebook and Google AdWords data to assess conversions and cost efficiency. Used hypothesis testing and cointegration analysis to optimize ad spend allocation and improve ROI.

Vio-Later: Predictive Prevention of Traffic Violations and Road Accidents

- Developed a traffic violation prevention system using New York traffic data, leveraging **GeoPandas** for city map visualization using **ensemble of XGBoost, ANN, Decision Trees** to predict high-risk violations and reduce accidents.