Akshata Gurayya Annigeri

Chicago, Illinois, (30 miles/Remote) | akshata12.annigeri@gmail.com | +1 940-315-4302 | **LinkedIn** | **GitHub**

Professional Summary:

I am results-driven Data Analyst with 3+ years of experience turning large, complex datasets into actionable insights that support strategic decisions and deliver measurable results. Skilled in identifying trends, building impactful dashboards, and leveraging machine learning and GenAI tools to enhance analysis and forecasting. A proactive problem solver and clear communicator who collaborates effectively with stakeholders to deliver practical, data-driven solutions.

Education

M.S. in Data Analytics, McDaniel College, Maryland, USA - **3.9/4**
Executive PG Diploma in Data Science & Business Intelligence, IIIT, Bangalore, India
Bachelor's from Gogte Institute of Technology, Belagavi, India

---

Skills:

Programming Languages:	Python, SQL, R, Unix, C, C++
ML & Statistical Techniques:	Linear & Logistic Regression, Decision Trees, Random Forest, XGBoost, Clustering (K-Means, Hierarchical), Classification (Naïve Bayes, KNN), Time Series Forecasting (ARIMA, FFT), NLP (Text Processing, Lexical Analysis), Hypothesis Testing, A/B Testing, Segmentation, Scikit-learn, Generative AI and LLMs (LangChain, GPT-3.5, Hugging Face,Tavily, Prompt Engineering)
Data Analysis & Visualization:	Exploratory Data Analysis (EDA), Pandas, NumPy, Matplotlib, Seaborn, Plotly, Ggplot2, Power BI, Tableau, Streamlit, MS Excel (PowerPivot, VLOOKUP, Pivot Tables)
Database Management & ETL:	SQL Server, MySQL, Oracle, Snowflake, Data Warehousing, Data Lakes, ETL Processes
Big Data & Cloud Technologies:	Apache Spark (Pyspark), AWS, Azure.
Data Integration & Processing:	REST APIs, SOAP, XML, JSON, XSLT, IBM DataPower Gateway.
Tools and Platforms:	Jupyter Notebook, GitHub, JIRA, ServiceNow
Project Methodologies:	SDLC, Agile, Waterfall

Professional Experience:

Data Analyst, TCS   **Sep 2018 – Jan 2022**

- Improved data quality and reliability for a major U.S. bank by optimizing ETL pipelines, automating validation scripts, and implementing pre-processing checks—resulting in a 20% increase in data accuracy and 12% faster processing.
- Performed root cause analysis on customer-reported issues, leveraging SQL, Python, and data visualization to analyse 10 M+ records, identifying key patterns that improved issue resolution time by 15%.
- Designed and developed interactive dashboards (Power BI, Tableau), integrating SQL-based models to provide real-time insights, enabling leadership to make data-driven decisions.
- Led ad-hoc data projects, collaborating with cross-functional teams to address client needs, automate workflows, and ensure seamless knowledge transfer for improved team onboarding and efficiency.
- Interpreted outputs from anomaly detection model to detect irregularities in financial transaction data, contributing to improved data quality and proactive incident response.

Application developer (Data and Analytics), IBM   **Jan 2022- Jul 2022**

- Analysed API performance metrics for a global telecom network, optimizing load balancing strategies and improving backend efficiency, reducing processing time by 48%.
- Assessed SOAP and REST API payload structures, such as XML and JSON, identified performance bottlenecks, and recommended data-driven optimizations to enhance system throughput.
- Led requirement analysis and stakeholder communication, leveraging data insights to streamline workflows and cut requirement clarification time by 40%.
- Delivered insights on usage patterns, error rates, and response times from IBM DataPower Gateway logs to uncover performance trends and support early-stage development of predictive monitoring systems.

Projects:

- **Lead Conversion Prediction for an Educational institution**: Built a logistic regression model to predict lead conversion from 9,000+ records, achieving 77% accuracy, 84% recall, and 68% precision. Delivered lead scores and evaluation reports to support marketing strategy.
- **E-commerce KPI Analysis:** Analysed 4 years of sales data across 5 markets and 5 categories using SQL and Power BI. Highlighted Europe as the top-performing market and surfaced a 40% drop in 2023 profit margins. Delivered dashboards with dynamic filters for actionable insights on sales, pricing, and profitability.
- **NCAA 2025 Men's Basketball Tournament Prediction:** Developed an NCAA 2025 match prediction model using XGBoost and team performance data, achieving 97% accuracy and 0.02 Brier score. Used SHAP for explainability and generated win probabilities for all matchups.
- **GenAI Insurance News Agent:** Created a real-time insurance news tool using LangChain, GPT-3.5, and Tavily to scrape, summarize, and tag risks. Built Streamlit dashboards for sentiment, geography, and categories using SpaCy and Pandas.

Certifications:

Refer to my LinkedIn page for my latest certifications.