Akshata Gurayya Annigeri

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Professional Summary:

Data Analyst with 4 years of experience transforming data into valuable insights. Skilled in Python, SQL, Power BI, and Tableau, with strong knowledge of machine learning and generative AI. Adaptable and collaborative, committed to driving data-driven decisions.

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 of Engineering, Gogte Institute of Technology, Belagavi, India

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Professional Experience:

Data Analyst, Tata Consultancy Services | Financial and Banking Project   **Sep 2018- Jan 2022**

- Improved data workflows for the online platform of a leading U.S. bank; optimized ETL pipelines and automated validations, leading to a 20% increase in data accuracy and 12% reduction in processing time.
- Analyzed over 10M customer records using SQL, Python and Excel to uncover system inefficiencies and user pain points. Delivered actionable insights that reduced issue resolution time by 25%.
- Developed 12+ interactive dashboards in Power BI to track key performance indicators (KPIs), enabling leadership to make faster, data-driven decisions and improving operational response time by 15%.
- Led ad-hoc data projects, automated workflows to reduce manual effort by 20 hours monthly, and created documentation that reduced onboarding time for new team members by 30%.
- Implemented first-level anomaly detection on financial transactions, flagging 500+ irregular cases over 6 months for the fraud team, improving data quality and speeding up fraud investigations.
- Collaborated with tech and non-tech teams to align data sources and improve processes; conducted 20+ knowledge-sharing sessions for new joiners and partner teams.

Application Developer (Data and Analytics), IBM | Healthcare Project   **Jan 2022- Jul 2022**

- Enhanced API performance and backend systems supporting patient data exchange by analyzing system metrics and refining load balancing strategies, reducing processing time by 48%.
- Assessed SOAP and REST API payloads used for appointment scheduling and EHR access to identify bottlenecks, implemented improvements that almost doubled request handling capacity.
- Facilitated requirement analysis sessions with 10+ cross-functional stakeholders (developers, product owners, and healthcare operations) to clarify technical needs which reduced project delivery timelines from 6 months to 4.5 months.
- Analyzed API error and usage logs from hospital systems to uncover failure patterns, contributing to the development of a predictive monitoring framework that reduced unexpected downtimes.

Projects:

- **Lead Conversion Prediction for an Educational institution** | Python, Logistic Regression, Excel
  Built a model on 9,000+ leads to predict conversion likelihood; achieved 77% accuracy, 84% recall, and 68% precision. Delivered lead scores and actionable insights to support marketing efforts.
- **E-commerce KPI Analysis** | SQL, Power BI
  Analyzed 4 years of sales data across 5 markets and 5 categories. Identified Europe as the top-performing market and uncovered a 40% drop in 2023 profit margins. Delivered dynamic dashboards for insights on sales, pricing, and profitability.
- **Sports Match Outcome Prediction** | XGBoost, SHAP, Pandas
  Engineered features from team performance stats to predict game outcomes with 97% accuracy and a 0.02 Brier score. Used SHAP to explain key drivers and generated win probabilities for each matchup.
- **GenAI Insurance News Agent** | LangChain, GPT-3.5, Streamlit, Tavily
  Developed a real-time tool to scrape, summarize, and tag insurance-related news. Extracted entities using SpaCy and visualized sentiment, risk category, and geography using Streamlit dashboards.

Skills:

Python, SQL, R, Scikit-learn, Regression, Clustering, Classification, Time Series, NLP, A/B Testing, GenAI (LangChain, GPT-3.5), Power BI, Tableau, Streamlit, Excel, Pandas, NumPy, Matplotlib, Seaborn, Plotly, SQL Server, MySQL, Snowflake, ETL, AWS, Azure, Spark, REST APIs, JSON, Jupyter, GitHub, JIRA, Agile.

Certifications:

- Smartsheet Core Product Certified – Smartsheet (May 2025)
- Practical Data Science with Amazon SageMaker – AWS Training & Certification (Mar 2025)
- What Is Generative AI? – LinkedIn Learning (Mar 2025)
- Python for Data Analytics & Visualization – Udemy (Feb 2024)