

RUCHITHA KOTA

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Microsoft Certified: Fabric Analytics Engineer Associate (DP-700)

PROFESSIONAL SUMMARY

Data Analyst with hands-on experience across enterprise analytics and operational settings, building reports and dashboards that stakeholders actually use to make decisions. At Accenture I worked inside large enterprise systems for US clients, diagnosing data issues and turning them into reports that got change approvals from leadership. My M.S. in Computer Science added Python and statistical modeling to the toolkit, and I hold a Microsoft Fabric Analytics Engineer certification. I am comfortable moving between detailed technical work and presenting findings to a non-technical audience without losing either side.

TECHNICAL SKILLS

SQL & Databases	SQL Server, PostgreSQL, MySQL, complex queries, CTEs, window functions, query optimization, data profiling and reconciliation
Visualization & BI	Power BI (Microsoft certified, DAX, KPI dashboards), Tableau, Excel (Pivot Tables, XLOOKUP, SUMIFS, Power Query), Google Sheets, Looker (familiar)
Analysis & Statistics	Exploratory data analysis, A/B testing, hypothesis testing, cohort analysis, segmentation, forecasting, root cause analysis
Python & Data Engineering	Python (Pandas, NumPy, Matplotlib, Seaborn), ETL pipeline development, AWS (S3, EC2, Lambda), LLM Prompt Engineering, Git / GitHub

WORK EXPERIENCE

Graduate Student Assistant, AI/ML Courses | University at Buffalo | Buffalo, NY *Aug 2024 - May 2025*

- Led recitations for 70+ graduate students simplifying CNNs, RNNs, attention mechanisms, and core ML concepts; designed PyTorch-based homework assignments and grading rubrics, reducing grading turnaround time by 20%.
- Evaluated 300+ student ML and statistics projects, provided structured feedback that improved overall class performance by one letter grade.

CSE Workshop Coordinator | University at Buffalo | Buffalo, NY *Jan 2025 - May 2025*

- Directed a 9-part workshop series on Cloud Computing (AWS), Docker, and LLM prompt engineering for 420+ attendees, partnering with AWS and Hugging Face on curriculum design and infrastructure setup.
- Improved participant satisfaction by 30% through iterative, data-driven curriculum adjustments.

Packaged App Development Associate, Data Analytics and Reporting | Accenture *Sep 2022 - Dec 2023*

- Investigated and resolved 450+ data incidents raised by US clients via ServiceNow, diagnosing root causes in SAP production and quality systems across procurement and AP functions, and turning findings into process improvement recommendations for clients.
- Built visualizations and 40+ root cause analysis reports presented to clients and senior leadership to get change approvals in production systems.

Internship Trainee | Cognizant *Feb 2022 - Aug 2022*

- Supported data review, reporting, and documentation tasks within a structured project team.
- Built foundational skills in Python, SQL, and data pipeline workflows.

PROJECTS

Customer Review Sentiment Analysis (NLP) (Python, NLTK/VADER, SQL, Power BI)

- Cleaned and sentiment-scored 10,000 Yelp reviews with VADER, found lexicon-based scoring misclassified 44.9% of 1-star reviews as positive due to sarcasm, and corrected 1,020 reviews by combining star rating with sentiment score; keyword/bigram analysis identified service quality, order accuracy, and wait time as the top complaint drivers.
- *In progress: restructuring into a script-based ETL pipeline reading/writing from AWS S3, and building the SQL and Power BI layers.*

Superstore Retail Sales Dashboard (Python-20%, Power BI-80%, Excel)

- Cleaned and consolidated a 9,994-row retail sales dataset spanning 4 regions, 3 categories, and 3 customer segments, then built interactive Power BI and Tableau dashboards that surfaced underperforming state and sub-category combinations not visible in prior static reports.

Hotel Booking Cancellation Analysis (Python-40%, Power BI-60%, DAX)

- Analyzed 119,390 hotel bookings across 2 hotels in Portugal, found City Hotel accounted for 74.85% of all cancellations despite roughly 2x the booking volume of Resort Hotel, and delivered 5 data-backed recommendations via a 3-page Power BI dashboard, including deposit requirements for 180+ day lead-time bookings.

EDUCATION

M.S. Computer Science, AI/ML Specialization | University at Buffalo | 2025 | GPA: 3.40/4.00

B.Tech Electrical and Electronics Engineering | Vardhaman College of Engineering | 2022 | GPA: 9.21/10 (Rank 3)

CERTIFICATIONS

- Microsoft Certified: Fabric Analytics Engineer Associate (DP-700)
- Databases and SQL for Data Science with Python, IBM Coursera
- Introduction to Data Analytics, IBM Coursera