

ATHARVA CHASKAR

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SUMMARY

Data Analyst with experience using SQL, Python, statistical analysis, and data visualization to analyze complex datasets, uncover trends and anomalies, and translate findings into actionable recommendations. Experienced in exploratory data analysis, data transformation, data quality, and repeatable analytical workflows across multiple data sources. Master's in Management Information Systems with industry experience at Accenture and published, peer-reviewed research recognized with the Best Research-in-Progress Award at MWAIS 2026.

TECHNICAL SKILLS

- **Data Analysis:** SQL (CTEs, Window Functions, Joins, Query Optimization), Python (Pandas, NumPy, scikit-learn), Exploratory Data Analysis, Statistical Analysis, K-means Clustering, Data Quality
- **Business Intelligence:** Tableau, Power BI, Looker Studio, Plotly, Matplotlib, GeoPandas, Excel, Power Query, KPI Development
- **Data & Cloud:** Snowflake, Azure Data Factory, dbt Core, ETL/ELT, Data Transformation, Data Modeling
- **Tools & Methodologies:** Git, CI/CD, Agile-Scrum, UAT, Technical Documentation

EXPERIENCE

Data Research Assistant • *University of Illinois, Springfield* • *Springfield, Illinois* Oct 2024 - May 2026

- Conducted exploratory analysis of 3,322 census block groups using Python, statistical methods, and K-means clustering to identify geographic and mobility patterns, uncovering a Transit-Walkability Gap affecting 53% of census block groups in the Chicago metropolitan area.
- Built a repeatable Python analytical workflow incorporating feature selection, z-score standardization, multicollinearity analysis, and one-way ANOVA validation to investigate underlying patterns and improve the reliability of analytical results.
- Generated publication-quality spatial visualizations using GeoPandas and Matplotlib to communicate cluster distributions and complex geographic patterns across the Chicago–Naperville–Elgin CBSA.
- Co-authored a peer-reviewed research paper published in the MWAIS 2026 Conference Proceedings.

Associate Application Developer - Data & Analytics • *Accenture* • *Pune, India* Apr 2023 - Jul 2024

- Analyzed and transformed data from 5+ heterogeneous sources to support reliable reporting and business intelligence, improving data ingestion reliability by 15% through validation and profiling.
- Developed and optimized SQL transformations within ADF workflows, reducing query execution latency by 10% and producing KPI-ready datasets for executive reporting dashboards.
- Investigated recurring data-quality anomalies and reporting issues to identify root causes, building automated data processing workflows that reduced recurring anomalies by approximately 15% and improved the consistency of analytical output.
- Collaborated with cross-functional technical and business teams during bi-weekly production releases, providing UAT support, participating in code reviews, and validating data and reporting changes.

PROJECTS

Commute-Honest Housing Score (CHS)

- Productized peer-reviewed MWAIS 2026 research into a live, address-level scoring API and web map covering 581,834 Chicago addresses, replacing a single opaque walkability score with 4 transparent, weighted sub-scores.
- Built an end-to-end DuckDB + dbt Core data pipeline using a medallion architecture, integrating GTFS schedules and OpenStreetMap routing via r5py to calculate real transit and walking travel times; achieved 70/70 automated data-quality checks.
- Scaled citywide scoring through a 9,525-point grid-based precomputation architecture, reducing estimated brute-force routing time from 40+ hours to ~1 hour, and deployed a production FastAPI + Leaflet application using Docker and Render.

CTA Performance Analytics Platform

- Analyzed 9,190 daily Chicago Transit Authority ridership records spanning 25 years using Python and Pandas, representing approximately 11.1 billion total rides, to identify long-term ridership trends, including a 57% COVID-driven decline and subsequent recovery patterns.
- Quantified differences in post-COVID recovery between bus and rail services, finding rail ridership remained approximately 37% below 2019 levels by 2025 compared with approximately 16% for bus, surfacing structural shifts in commuter behavior.
- Built an end-to-end Python ETL pipeline ingesting 9,190 records from the Chicago Data Portal public API into Snowflake and developed an interactive Plotly Dash dashboard with 4 dynamic visualizations to communicate ridership patterns and trends.

Olist E-Commerce Analytics Platform

- Engineered a Python ingestion pipeline loading ~1.5M rows across 9 relational CSVs into Snowflake RAW schema using snowflake-connector-python and write_pandas.
- Architected a three-layer Snowflake medallion structure using dbt Core, 8 staging views for standardization and type casting, 3 mart tables answering business questions on seller segmentation, delivery performance, and product category economics.
- Delivered 3 Looker Studio dashboards surfacing \$13.7M platform revenue, 91.9% on-time delivery rate, and freight burden analysis across 74 product categories.

EDUCATION

University of Illinois Springfield • *Master's in Management Information Systems*

May 2026

Honors: Beta Gamma Sigma (BGS) Honor Society Inductee

AWARDS & PUBLICATIONS

Best Research-in-Progress Paper Award - 21st Annual MWAIS Conference, Athens, Ohio, May 2026

Chaskar, A. and Singh, N. (2026). Mobility Misalignment in the Age of Hybrid Work: Identifying Transit–Walkability Gaps Through Unsupervised Spatial Analytics. MWAIS 2026 Proceedings.