

## AKASH KUMAR SORALLE

West Haven, CT, USA, 06516 | +1(203)-687-1824 | [akashsoralle530@gmail.com](mailto:akashsoralle530@gmail.com) | [www.linkedin.com/in/akashsoralle0509](https://www.linkedin.com/in/akashsoralle0509)

### **PROFESSIONAL SUMMARY**

Data Engineer and Data Scientist with a Master's in Business Analytics and hands-on experience across financial and automotive domains. Proficient in building scalable ETL pipelines, data warehousing, and real-time analytics solutions on Azure, AWS, and GCP. I am skilled in SQL, Python, R, and visualization tools such as Power BI and Tableau. Experienced in developing predictive models, designing data architectures, and delivering insights that drive measurable business outcomes. Adept at mentoring, collaborating with cross-functional teams, and optimizing data-driven decision-making, with additional academic experience in analytics and data science research.

### **TECHNICAL SKILLS**

**Programming Languages:** Python, R, SQL, Java, C

**Data Engineering & ETL/ELT Pipelines:** Azure Data Factory, Apache NiFi, dbt, Airflow, Informatica, Spark, Kafka

**Cloud Platforms:** Azure, AWS (S3, Redshift, Glue, RDS, EMR), GCP (BigQuery, Dataflow, Composer)

**Databases:** Snowflake, SQL Server, Oracle, PostgreSQL, MySQL, BigQuery, Redshift

**Visualization:** Power BI, Tableau, MicroStrategy

**Machine Learning:** Random Forest, Logistic Regression, K-Means, Predictive Analytics, Segmentation

**Collaboration & Tools:** Git, JIRA, Confluence, Microsoft Teams, Figma, Miro

### **PROFESSIONAL EXPERIENCE**

**Teaching Assistant | University of New Haven | Aug 2024 – May 2025 | CT**

- Supported professors in Data Mining and Business Analytics courses, assisting with instructional materials, grading, and student mentoring.
- Conducted lab sessions on Python, R, SQL, and Power BI for data analysis and visualization, improving student project outcomes by 25%.
- Guided graduate students on predictive modeling, clustering, and regression using real-world datasets, ensuring practical application of concepts.
- Collaborated with faculty to enhance course delivery through interactive dashboards and analytics case studies.
- Introduced AI-driven approaches in predictive modeling and NLP applications to enhance student learning.

**Data Scientist | Accenture | Sep 2022 – Jul 2023 |**

- Designed and maintained automated ETL pipelines using Apache NiFi and Azure Data Factory to process large-scale product and customer data.
- Integrated customer data into Redshift and Snowflake for advanced churn and retention analytics, improving retention strategies by 15%.
- Built dbt transformations and delivered dashboards in Mode Analytics, providing actionable insights to retail operations teams.
- Collaborated with business teams to implement campaign analytics using Segment, Heap, and A/B testing in Optimizely, increasing upsell conversions by 12%.
- Applied AI-based anomaly detection using Python and Spark MLlib to strengthen data quality monitoring.

**Data Analyst | Volvo Cars Pvt. Ltd. | Apr 2021 – Aug 2022 |**

- Developed real-time dashboards in MicroStrategy and Oracle BI to monitor manufacturing KPIs across multiple plants.
- Extracted and processed production and telemetry data from SAP HANA, BigQuery, and Tableau CRM for predictive maintenance.
- Implemented anomaly detection logic using KNIME and Python to proactively identify recurring component failures.
- Documented ETL workflows in Informatica PowerCenter to improve reliability and transparency of engineering analytics pipelines.
- Explored AI/ML use cases in predictive maintenance and vehicle sensor analytics with engineering teams.

## **PROJECTS**

### **Optimizing Online Insurance Conversions Using Machine Learning | May 2025**

- Analyzed 100K+ insurance quotes with SQL and R to identify gaps in online customer conversion.
- Developed predictive models (Random Forest, Logistic Regression) and clustering (K-Means) for customer segmentation.
- Built interactive Power BI dashboards to visualize funnel drop-offs, demographics, and coverage patterns.
- Delivered insights that informed pricing and marketing strategies projected to boost conversion by 20%.
- Engineered and merged Funnel, Policy, and Regional datasets with feature engineering and AI-driven modeling for actionable insights

### **Tesco Supply Chain Analysis | Nov 2023**

- Built an integrated Power BI dashboard from Kaggle datasets, revealing operational insights including a 20% sales increase and 15% profit rise.
- Applied advanced DAX, conditional measures, and transformations to refine accuracy and usability.
- Developed customer-centric and time-series visualizations for strategic supply chain monitoring.

## **EDUCATION**

Master's in Business Analytics | University of New Haven | Aug 2023 – May 2025

Bachelor's in Electrical and Electronics Engineering | MLRIT | Jul 2018 – Jun 2022