

# ROHAN SHRESTHA

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## EXPERIENCE

### Dura-Shiloh Industries

Jun 2025 - Dec 2025

IT intern - Data Engineering & Analytics

Remote

- Built **Databricks-based** data pipelines ingesting **100+** structured datasets weekly for Power BI dashboards.
- Implemented data validation and business rules using SQL, improving data accuracy and reporting reliability.
- Developed an AI-powered application to capture and structure user interaction data using an **LLM-based interface**, integrated with Microsoft Entra ID authentication to ensure secure access and user-level data traceability
- Partnered with engineering, operations, and business teams to translate requirements into analytics solutions supporting decision-making.

Data Analytics and Special Projects Intern.

Auburn Hills, MI

- Developed **end-to-end analytics solutions using Microsoft Fabric**, replacing manual Excel trackers and improving executive reporting visibility and consistency.
- Analyzed on-site operational processes to identify inventory discrepancies and improve labeling and tracking accuracy.
- Automated recurring reporting workflows using Power Query, and Power Automate reducing manual effort by **35%**.
- Tracked KPIs, prepared documentation, and delivered analytics to support PMO and leadership decision-making.

### Nepal Red Cross Society

Jun 2024 - Aug 2024

Data Analyst Intern.

Ramechhap, Nepal

- Analyzed **500+** patient records using Excel, Power Query, and Python, producing clean datasets for health reporting.
- Built **SQL-based reports** and **Python visualizations** to identify trends and support operational decision-making.
- Automated recurring data preparation and reporting workflows, improving consistency and reducing manual effort.

### University of Louisiana at Monroe

Feb 2023 - May 2025

IT Support Technician.

Monroe, LA

- Diagnosed and resolved **over 1,000** technical issues for students and faculty, contributing to improved operational efficiency and supporting cross-department data needs.

## PROJECTS AND COMPETITION

### Healthcare Readmissions Risk Analytics | [GitHub](#)

Dec 2025

- Built an end-to-end analytics pipeline integrating CMS hospital data with CDC Social Vulnerability Index metrics.
- Analyzed nationwide hospital data to identify **52% of hospitals** serving high-vulnerability populations and **15% classified as high-risk** based on combined clinical and social indicators.
- Developed automated data processing and visualization workflows using Python and Power BI, enabling scalable analysis and clear communication of healthcare risk patterns.

### Automated Analytics Data Pipeline | [GitHub](#)

Nov 2025

- Built an **AI analytics pipeline** using Python and LLM-based agents to automate data ingestion and transformation.
- Implemented agent-driven data validation and anomaly detection to ensure analytics-ready datasets.
- Orchestrated multi-step analytics workflows for repeatable reporting and insight generation.
- Reduced manual analysis effort by automating end-to-end data preparation and reporting workflows.

## SKILLS

- **Technical Skills:** SQL (PostgreSQL, MySQL), Python (Pandas, Numpy, Seaborn), Power BI, Excel
- **Data & Analytics:** Data Validation, EDA, KPI Development, Statistical Analysis, A/B Testing
- **Data Engineering & Automation:** ETL pipelines, dbt, Databricks, Power Automate, Automated Reporting Workflows
- **Tools & Platforms:** Azure, GCP, Git/Github, BigQuery, Fabric

## EDUCATION

### University of Louisiana at Monroe

Aug 2022 - May 2026

Bachelor of Science, Computer Science (GPA:3.65)

Monroe, LA

- **Achievements:** Dean's Scholar, NSA - Vice-President (Campus), Elevator Pitch Contest - Third Position
- **Coursework:** Artificial Intelligence, Database management, Python, DSA, Calculus, Linear Algebra, Statistics