HARSHAL SAWANT

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Education

Illinois Institute of Technology **August 2023 – May 2025**
Master of Science in Information Technology and Management | GPA: 3.9/4.0 *Chicago, IL*

Coursework: Data Analytics, Machine Learning, Data Mining, Data Warehousing, Service Oriented Architectures, Advanced Data Management, Data Security, Web Application Development, Project Management.

Professional Experience

MSI Express **May 2024 – August 2024**
Data Analyst *Batavia, IL*

- Migrated API data from 10+ schemas to Snowflake and optimized SQL queries for consistent downstream reporting.
- Automated daily API data ingestion into Redshift using Python, parsing JSON/XML with plugins, improving data accuracy by 50% and supporting dashboards used by 4 departments.
- Utilized SQL to create 3 self-service Tableau dashboards and presented them in an organization-wide meeting, uncovering key insights that helped mitigate over $320k in potential risk.
- Spearheaded cross-functional teams to build an end-to-end web solution using Redshift DB, Smartsheet, Flask and React, eliminating 100% of manual efforts leading to a 50% turn time improvement.
- Consolidated data from WMS and ERP systems into a centralized database, saving 40+ hours of manual efforts monthly.

Biencaps Systems **August 2020 – June 2023**
Data Analyst *India*

- Collaborated in an agile environment to manage integrations using Git and Jira, reducing deployment time by 35%.
- Employed Firebase to handle secure data storage and authentication across multi-platform apps, supporting over 400 real-time data sync operations.
- Supported product team by developing UI components for a user-friendly software with 5000+ daily users and conducted A/B testing, maintaining a 95% SLA compliance rate and boosting user satisfaction by 35%.
- Deployed an automated UOM conversion system in Databricks, enabling 2x faster and reliable reporting.
- Assessed business requirements while ensuring clear communication with stakeholders and non-technical teams, driving scalable implementations and a 35% reduction in maintenance costs.
- Mentored 4 interns in analyzing large datasets using SQL, advanced Excel (VLOOKUP/XLOOKUP, Pivot tables, Charts, Conditional Formatting and VBA), and Power BI, resulting in a 25% faster turnaround on data reports.
- Conducted root cause analysis via Ad-hoc SQL queries to troubleshoot database issues and other business requests, reducing data inconsistencies and accelerating reporting cycles by 30%.
- Optimized complex queries in Redshift using SQL joins, sub-queries, and triggers, and streamlined weekly KPI reports with Power BI and DAX, reducing delivery time by 80%.

Projects

InfoGenie - Personalized AI-Powered Assistant for Any Website

- AI-powered chatbot that scrapes content from user-provided URLs and dynamically selects an optimal LLM based on available compute power, enabling real-time, context-aware Q&A without the need for manual browsing.

LinkedIn Data-Mart

- Built an ETL pipeline using Pentaho (Kettle). Leveraged PowerBI for data visualization and designed an interactive dashboard to effectively communicate user profile information.

Skills

Languages: Python (NumPy, Pandas, Scikit-learn, SciPy), JavaScript, SQL, R.
Databases: Amazon Redshift, Snowflake, Oracle, PostgreSQL, MySQL.
Developer Tools: VS Code, Pentaho (Kettle), Figma, GitHub/Gitlab, JIRA, Smartsheet, Power Automate.
Operating Systems: Unix, Linux.
Data Analysis and Governance: Tableau, Power BI, Microsoft Office Suite, Unity Catalog.
Cloud: AWS (EC2, S3, IAM, Lambda), Microsoft Azure (Data Factory, Data Lake Storage, Databricks).
Big Data: Spark (PySpark).

Honors and Achievements

- **Outstanding Academic Award** – Illinois Institute of Technology, 2025
- **Outstanding Achievement Award** – MSI Express, 2024