

Shouvik Sharma

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SUMMARY

Results-driven Data Engineer with a proven track record in designing and implementing scalable data solutions. Proven ability to Procure, Curate, Notify, and Publish data for various commercial use cases. Specialized in leveraging modern cloud-based tech stacks, including AWS, Databricks, and Microsoft Azure. Adept at collaborating with cross-functional teams and ensuring data quality and consistency.

WORK EXPERIENCE

Data Engineer at Avant LLC, Chicago:

(Aug 2021 –Present)

- Implemented robust data quality checks using SODA for real-time validation, developed custom Python scripts to rectify anomalies, and automated anomaly detection, resulting in a 30% reduction in data discrepancies and enhanced overall data reliability.
- Led end-to-end data transformation workflows with DBT (data build tool), achieving a 20% improvement in analytics process efficiency and ensuring reproducibility.
- Extracted insights from marketing data to create **source attribution funnel** dashboard in Looker, this helped business stakeholders to improve customers' application experience, and increase application rate by 4%.
- Migrated marketing campaign pipelines from conventional marketing tools like Responsys to Segment using API supported python libraries.
- Built a refinance product data pipeline for existing loan customers based on their TransUnion credit scores and existing features, contributing to a 10% increase in the overall refinance book.
- Collaborated with business stakeholders to extract insights from marketing data, enhancing the application experience and increasing application rates by 4%.
- Proficient in writing complex SQL queries as a source for ETL pipelines, providing recommendations to the DBA team for optimization, including index creation and partition changes.
- Supported debt collection practices by developing mission-critical pipelines using PySpark and orchestration tools like Airflow.

Data Engineer Intern at CNH Industrial Inc., Racine:

(Mar 2021 – Aug 2021)

- Designed and implemented efficient ETL processes using Microsoft Access, optimizing SQL queries, collaborating with cross-functional teams, automating reporting systems, and conducting performance tuning, resulting in enhanced data management and accessibility.
- Collaborated with data scientists to define data requirements, implemented ETL processes for seamless data integration, optimized SQL queries, and facilitated the development of predictive models, fostering a synergistic environment for data-driven insights.
- Development of tools to allow process automation, analysis & corrective action implementation by the business.

Data Engineer at Daten Solutions Inc., Chicago:

(May 2020 – Mar 2021)

- Developed and automated data migration pipeline from SQL Server to Snowflake using SnowSQL and SnowPipe, and further enhanced data quality by performing dimensional modeling on the migrated data.
- Developed and maintained data pipelines using Azure services resulting in a 40% increase in data processing speed.
- Automated ETL processes using Prefect (Python), enhancing data wrangling capabilities and achieving a 40% reduction in time through large-scale data conversions. Facilitated the seamless transfer of BAAN data into standardized formats for integration into Snowflake.
- Created Tableau dashboards to explain variation in success Metrics and Time Series Analysis to higher management.
- Automated reporting process using Excel VBA (Macros) and MySQL maintaining accuracy and saving ~ 75% of time, maintained version control Git, Mercurial, SVN.

Data Engineer – Practicum Student at Labelmaster, Chicago:

(May 2020 – Dec 2020)

- Involved in designing databases, data marts, E-R model for OLTP and multi-dimensional model for OLAP using SnowSQL.
- Optimized complex SQL scripts for quality checking of projects and populating output tables for deployment using Azure Pipelines.
- Automated hourly status report saving 10 man-hours/week, thus decreasing response time for fixes and campaign failures.

Big Data Developer at Cartesian Consulting, Mumbai:

(Apr 2018- Jul 2019)

- Designed and implemented ETL processes using Azure Data Factory, resulting in a 50% reduction in processing time.
- Implemented data governance policies resulting in a 30% reduction in data quality issues.
- Formulated and implemented data governance policies, resulting in a substantial 30% reduction in data quality issues within the MariaDB environment.
- Developed dimensional data models and a MariaDB-powered data warehouse, strictly adhering to integrity and normalization rules. This infrastructure supported the creation of a campaign data-mart and a comprehensive customer one-view for marketing campaigns.

EDUCATION

- MS in Computer Science and Mathematics**, Illinois Institute of Technology, **GPA: 3.8**

(Aug 2019 - May2021)

Related Courses: Big Data Technologies, Applied Statistics, Database Management

- MS in Statistics**, NMIMS University, **GPA: 3.35**

(Jul 2016 - Apr 2018)

- Certifications: [Snowflake Pro Certification](#), SAS Certified Predictive Modeler, Databricks Data Engineer Certified.

SKILLS

- Programming:** Python, SQL, Scala, Java, HTML, Excel VBA (Macros).
- Big Data Ecosystem:** Spark, Hadoop, MapReduce, Hive, Pig, Kafka, Flume, Hbase, Microsoft Azure.
- Cloud Technologies:** AWS (S3, EC2, Lambda, Athena, RDS, Redshift, EMR), NoSQL, Cassandra, MongoDB, Kubernetes, Snowflake, CircleCI, Airflow, Prefect, Google Data Studio, Azure Synapse Analytics.
- Tools:** Tableau, Power BI, Azure ML, RStudio, Jupyter Notebook, DBT, Databricks, IBM-Unica, SSIS, MS Office, JIRA, Looker.
- Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, Nltk, Gensim, Scipy, Beautiful Soup.
- Datasets:** HTTP, HTML, XML, JSON