Shouvik Sharma

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# SUMMARY

Results-driven Data Engineer with expertise in designing and implementing scalable data solutions. Proficient in SQL, Python, and cloud technologies, with a strong background in ETL/ELT processes, data pipelines, and data quality management. Seeking to leverage my skills in data engineering to contribute to dynamic projects and drive data-driven decision-making.

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.
* Developed and optimized complex SQL queries for ETL pipelines, improving query performance by 25%
* Implemented Apache Airflow for workflow orchestration, resulting in a 30% increase in pipeline reliability
* Designed and maintained data pipelines using Python and dbt, achieving a 20% improvement in analytics process efficiency
* Collaborated with cross-functional teams to implement data quality checks using SODA, reducing data discrepancies by 30%, further utilized AWS services including Redshift and S3 for large-scale data processing and storage
* Developed Tableau dashboards for marketing attribution, contributing to a 4% increase in application rates. 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%.
* 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.
* Understand and write complex sql queries as a source of ETL pipelines, providing required recommendations to the DBA team such as adding an index on the frequently used tables, ultimately to improve query optimization.
* Utilized Azure Databricks extensively for data processing and analysis tasks, including building and optimizing Spark-based data pipelines for large-scale data processing, and implementing machine learning models for predictive analytics.
* Develop and implement collaborative data strategies to enhance analytics workflows, ensuring data integrity and accessibility, resulting in measurable improvements in cross-functional collaboration and data-driven decision-making within set timeframes.

## 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.

## 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.
* Minimize technical debt in managing new data requirements, ensuring scalability and sustainability of data solutions, resulting in a 20% reduction in maintenance time within six months.
* 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 DynamoDB, resulting in a 50% reduction in processing time.
* 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, Data Preparation and Analysis.
  + **MS in Statistics**, NMIMS University, **GPA: 3.35 (Jul 2016 - Apr 2018)**
  + Certifications**:** [Snowflake Pro Certification,](https://www.youracclaim.com/badges/f03d4251-13bd-4fd0-9f0d-45ff17bd718f) Databricks Certified Associate Data Engineer

SKILLS

* + **Programming:** Python, SQL, Scala, Java, HTML, Excel VBA (Macros).
  + **Big Data Ecosystem**: Spark, Hadoop, MapReduce, Hive, Pig, Kafka, Flume, Hbase, Microsoft Azure.
  + **Distributed Data/Computing Tools**: MapReduce, Hive, Spark
  + **Cloud Technologies**: Azure Data Factory, Azure Blob, NoSQL, Cassandra, MongoDB, Kubernetes, Snowflake, CircleCI, Airflow, Prefect, Google Data Studio, Azure Synapse Analytics, DynamoDB.
  + **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.