Aman Rathore

Data Analyst | Data Engineer | Business Analyst

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SUMMARY

Result-driven Data Engineer and Analyst with a Master's in Computer Science and 4 years of industry experience in designing, maintaining, and building robust ETL pipelines, analyzing large datasets, transforming complex data, and delivering data-driven insights. Proven expertise in advanced SQL, Python, and BI tools (Tableau and Power BI) along with experience across AWS and a deep understanding of Big Data Lakes and Data Warehouses for ingesting, standardizing, and serving billions of data rows, achieving outcomes like 43% error reduction and 36% improvement in data processing efficiency.

SKILLS

Programming Languages:	SQL (Window Functions, CTEs, Views, Joins, Stored Procedures), Python, NoSQL, HTML, CSS
Data Visualization & Processing:	Power BI, Tableau, Excel (VLOOKUP, XLOOKUP, Pivot Tables), NumPy, Pandas, Matplotlib
Databases and Data Integration:	PostgreSQL, Oracle, Snowflake, MySQL, ETL, Databricks, Azure, Microsoft Fabric, Data Modeling
Cloud & Other Technologies:	Amazon Web Services (Elasticsearch, S3, Kibana, Redshift, Athena, Kinesis, Glue, RDS, DMS), Git

PROFESSIONAL EXPERIENCE

EdgeLink Services, USA
Data Analytics Engineer   **Sep 2024 – Present**

- Implemented data models following Star schema and ETL pipelines using Databricks for a healthcare project to extract data using APIs and utilized Python & SQL to transform and clean errors for more than 1 million records, improving the usability of the data for analysis.
- Identified the distribution of the disease by gender, environment, and age using SQL and found the top five most common diseases in each region.
- Compared key metrics (recovery time, recurrence rates) by analyzing historical data and data from patients receiving the new treatment and determining which treatment is good for the disease.
- Developed interactive dashboards in Power BI and displayed KPIs (treatment success rates, frequent disease trends, and geographic prevalence), improving data accessibility and leading to a 17% increase in dashboard usage by non-technical users.

Tata Consultancy Services, India
Data Analyst (Client - Google)   **Sep 2019 – Dec 2021**

- Performed data cleaning operations (handling missing values and duplicates) using SQL on transactional data for the Google Payments project, reducing errors by 43%.
- Conducted statistical analysis, including hypothesis testing (t-tests, chi-square) to validate assumptions about user behavior and identify data patterns and relationships in online payment transactions, informing fraud detection strategies.
- Designed and maintained Tableau dashboards to present key insights into customer transactional data, helping stakeholders monitor cash flow trends, and leading to a 25% improvement in financial decision-making.
- Established strategic KPIs (total transactions, transaction success rates, total transaction value) and improved 22% analysis efficiency.
- Presented reports to business teams and stakeholders through clear and concise presentations, proposing data-driven solutions.

Tata Consultancy Services, India
Data Engineer (ETL Developer)   **Sep 2018 – Aug 2019**

- Created and optimized scalable ETL data pipelines using Datastage to process customer credit card data into the database, implementing data quality checks that resulted in a 36% improvement in data processing efficiency.
- Processed and transformed over 50 million sensitive customer information records, following privacy regulations through data masking techniques such as substitution and masking out, increasing data security by 17%.
- Monitored pipeline performance, troubleshoot data flow issues, and analyzed root causes to identify recurring data integration problems.
- Leveraged AWS DMS to migrate 2TB of card data from SQL Server to AWS RDS and reduced the 30% maintenance cost of the data.

EDUCATION

Master of Science, Computer Science   **Aug 2022 – May 2024**
California State University, Fullerton, CA
Bachelor of Technology, Computer Science   **Jul 2014 – May 2018**
GLA University, India

CERTIFICATIONS

Databricks Data Engineering and SQL Analytics | Google Advanced Data Analytics | Microsoft Power BI Data Analyst

PROJECTS

Business 360

- Analyzed financial data using SQL and Power BI to build interactive dashboards and track data trends.
- Created DAX measures and calculated columns to compare fiscal year performance against the target benchmarks.
- Constructed financial data models and visualizations and enhanced report performance by 14% with DAX Studio.
- Facilitated data-driven decision-making by validating and summarizing key financial data, resulting in a 12% revenue boost.

Real-Time Data Analysis using AWS

- Utilized AWS Kinesis to capture streaming data and loaded it into Elasticsearch and S3 bucket using Firehose.
- Filtered results and constructed Kibana dashboards, delivered real-time data visualizations, and optimized results by 40%.