

Varun Gandla

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PROFESSIONAL SUMMARY

- Data-driven Analyst with **4+ years** of experience delivering measurable results through data **operations, reporting, analytics, and automation**.
- Proficient in **SQL, Python, Power BI, Tableau, and Amazon Quick Sight** for dashboard creation and **business intelligence**.
- Strong experience with **ETL workflows, data pipelines, and data integration** using **AWS Glue, Lambda, and DataStage**.
- Adept at ensuring data accuracy, integrity, and validation in fast-paced, **cross-functional environments**.
- Expertise in **KPI development, forecasting models**, and statistical analysis to inform stakeholder decisions.
- Skilled in **collaborating with business, marketing, and operations** teams to align data solutions with organizational goals.
- Proven ability to **automate reporting processes** and reduce manual effort using tools like **Excel VBA and SQL**.
- Strong understanding of **Agile methodology** and experience working in **Scrum**-based teams.
- Experience developing **advanced reports including** tabular, matrix, drill-down, and visual chart-based reporting using **SSRS and Report Builder**.
- Hands-on knowledge of data modeling concepts, **logical/physical data structures**, and **complex query construction** for trend/pattern analysis.

TECHNICAL SKILLS

- **Languages & Scripting:** SQL, Python, PL/SQL, NoSQL
- **Data Visualization:** Power BI, Tableau, Amazon QuickSight, Excel (PivotTables, Macros, Power Query)
- **Cloud & Big Data:** AWS (S3, Glue, Redshift, Athena, Lambda, EC2, IAM), Apache Airflow
- **ETL & Databases:** IBM DataStage, Oracle Data Integrator, MySQL, Snowflake, Oracle
- **Analytics & Modeling:** Regression, Clustering, Forecasting, pandas, NumPy, Scikit-learn, SAS, Seaborn, Matplotlib
- **Tools & Platforms:** Git, JIRA, Agile/Scrum, Microsoft Excel (PivotTables, Macros, Power Query, VBA), Data Modeling, Data Warehousing

PROFESSIONAL EXPERIENCE

Prudential Financial, New Jersey

Feb 2025 – Present

Data Analyst

- Ingested and integrated high-volume policyholder, claims, and premium data from various sources using **AWS Glue, Lambda, and SQL-based ETL scripts**, which automated data pipelines, improved reliability, and reduced latency by 35% for downstream insurance analytics.
- Cleansed and validated insurance policy, claims, and customer records leveraging **AWS Glue, Amazon S3, and SQL queries**, which increased regulatory compliance and data accuracy, reducing reporting errors by 30% and supporting faster claims processing.
- Transformed and modeled large-scale insurance data in **Amazon Redshift** using **advanced SQL queries**, optimizing data structures for actuarial and risk analysis, and accelerating report generation by 40% to enable real-time insights for underwriters and claims teams.
- Analyzed and developed predictive models for risk and fraud detection with **AWS Sage Maker, Redshift ML, and SQL data marts**, improving fraud detection and boosting policy renewal campaign conversions by 15% through precise segmentation and risk assessment.
- Visualized and presented operational metrics and insurance KPIs using **Amazon Quick Sight and SQL-driven dashboards**, which enhanced data accessibility for executives by 40% and increased efficiency for claims and underwriting operations by 25%.
- Optimized and governed end-to-end data workflows by monitoring costs and performance with **AWS Cost Explorer, Redshift, and SQL-based audits**, which identified inefficiencies, improved resource allocation, and reduced operational costs by 20% while upholding compliance.

University of North Carolina at Charlotte, NC

Aug 2023 – May 2024

Graduate Teaching Assistant

- Mentored over 60 students in **SQL, database management, and ETL concepts**, which enhanced class engagement and improved average student project scores by 20%.
- Conducted interactive, hands-on labs with **Power BI and Excel** for data cleaning and **KPI** creation, increasing student proficiency in analytics and visualization by 30%.
- Designed and implemented **predictive modeling** exercises using **regression techniques in Python**, which improved student project accuracy by 15% and fostered advanced analytical thinking.
- Delivered weekly workshops on **query optimization** and **ETL pipeline design**, boosting students' applied data engineering skills and raising assessment scores by 20%.

Accenture, India

May 2021 – Aug 2023

Data Engineering Analyst

- Developed and automated retail sales, inventory, and after-sales service operation dashboards using **IBM Cognos and SQL**, reducing manual reporting efforts by 50% and delivering near real-time insights to retail and supply chain teams.
- Created and maintained **SSRS-based drill-down, matrix, and tabular reports in Report Builder and SQL Server Reporting Services**, aligning analytics with **KPIs** and compliance metrics to improve data transparency and regulatory adherence.

- Engineered and orchestrated **ETL workflows using IBM DataStage** to consolidate supplier, warehouse, and transactional data, ensuring accurate data transformations and supporting comprehensive analytics for both relational and non-relational sources.
- Leveraged advanced **Excel features (PivotTables, Power Query, VBA)** to clean, reshape, and analyze SKU, shipment, and return data, enhancing reporting agility and expediting logistics and supply chain decision-making.
- Migrated on-premises **DataStage workflows** to **AWS Glue and Lambda** for after-sales and inventory reporting, reducing manual intervention by 70% and delivering more reliable and scalable data pipelines.
- Transitioned legacy **Cognos** dashboards including after-sales, sales performance, and inventory analytics to **AWS Quick Sight**, cutting data transformation time by 40% and enabling highly interactive, scalable retail visualizations.
- Utilized **advanced SQL queries within SSRS and AWS Redshift** to uncover sales, returns, and inventory trends, driving a 25% increase in revenue through optimized stock management and improved supply chain efficiency.
- Designed and implemented real-time monitoring and order tracking data models in **AWS Redshift and Python**, boosting warehouse operation efficiency and accelerating response times for business-critical events.
- Collaborated with data engineers to refine **ETL pipelines and optimize SQL queries** powering drill-down and matrix reports, improving system throughput by 20% and reducing report delivery times.
- Optimized **AWS infrastructure (EC2, S3, Lambda, Redshift, Quick Sight)** for analytics workloads, achieving a 20% uplift in data processing, automating dashboard refreshes, and reducing analytics infrastructure costs.

Bharat Dynamics Ltd, India

May 2019 – Jun 2019

Intern

- Built and fine-tuned **machine learning models** (Random Forest, Logistic Regression, XGBoost) for a pharmacy app.
- Increased **recommendation accuracy** and **user satisfaction** through advanced model tuning and validation.
- Automated the recommendation workflow using Python, improving **scalability** and **processing time**.
- Integrated scikit-learn pipelines into operational systems, improving **app performance** and reliability.
- Developed **interactive dashboards** using Python and Tableau to visualize recommendation performance.

EDUCATION

M.S. in Computer Science

Aug 2023 – Dec 2024

University of North Carolina at Charlotte • CGPA: 3.9 / 4.0

B.S. in Computer Science and Engineering

Jul 2017 – May 2021

Karunya University • CGPA: 3.5 / 4.0

PROJECTS

Health Coverage Projection (Python, Streamlit, Machine Learning)

- Developed a **Streamlit** application to predict health insurance premiums using machine learning models trained on demographic and lifestyle data, driving more accurate premium estimations.
- Conducted **Exploratory Data Analysis** i.e., EDA and feature engineering to optimize predictions and deployed the solution on GitHub, demonstrating proficiency in **Python, scikit-learn, and web app development**.
- Analyzed extensive insurance datasets to **generate actionable metrics and visualizations**, enhancing business insight into cost drivers and improving strategic premium pricing decisions.

Music Recommendation System (Python, Streamlit, Machine Learning, Spotify API)

- Designed an interactive **Streamlit** application that recommends songs based on user input, leveraging a pre-trained similarity model and **Spotify API** for metadata and album cover retrieval.
- Implemented a **content-based recommendation** engine using preprocessed song datasets, achieving accurate and user-friendly recommendations through feature similarity analysis and intuitive UI.
- Created detailed analytics reports on user engagement and recommendation performance, enabling data-driven refinements and boosting overall user satisfaction.

Decoding the Automotive Scenario in India (Python, SQL, Tableau, D3.js, HTML/CSS, JavaScript)

- Developed an **interactive dashboard to visualize the performance** and trends of Indian car brands, leveraging cleaned and preprocessed datasets for in-depth analysis.
- Designed a user-friendly interface using **Tableau** for detailed insights and integrated **D3.js with HTML/CSS** for dynamic visualizations, including interactive charts and filters.
- Aggregated real-time and historical sales data to enable advanced performance metrics, guiding strategic decisions on brand positioning and marketing initiatives.

CERTIFICATIONS

AWS Academy Data Engineering Course: [Badge](#)

Dec 2024

- Gained hands-on experience designing and building data pipelines using **AWS Glue, Redshift, S3, and Lambda**.
- Learned to manage and automate scalable **ETL workflows** for real-time data processing.
- Applied best practices in **cloud data engineering**, including **data security, monitoring, and governance**.