Akhilesh Gottipati

Data Analyst

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Summary

- **Data Analyst** with **6+ years** of experience in **data analytics**, **medical records management**, and **clinical decision support**, delivering data-driven insights to **improve patient outcomes** and **operational efficiency**.
- Skilled in ETL processes and proficient in managing **SQL databases** (**MySQL**, **PostgreSQL**), ensuring accurate data **extraction**, **transformation**, and **loading** for **healthcare reporting** and **analysis**.
- Expert in **Power BI** and **Tableau** for developing interactive **dashboards** and **data visualizations**, facilitating actionable insights and informed **decision-making** for healthcare stakeholders.
- In-depth knowledge of medical records systems (**EHR**, **EMR**), **HL7 standards**, and **HIPAA compliance**, ensuring secure and compliant handling of sensitive healthcare data.
- Strong background in **statistical analysis**, including **regression**, **hypothesis testing**, and **forecasting**, to identify trends and patterns in clinical and operational data.
- Collaborative communicator, experienced in working with **cross-functional teams**, **healthcare providers**, and IT specialists to deliver tailored analytical solutions and support continuous improvement initiatives.

Skills

Programming Languages:	Python, R, SQL
Packages:	Pandas, NumPy, Matplotlib, Seaborn, ggplot
Data Visualization Tools:	Tableau, Power BI
Databases:	SQL Server, MySQL, PostgreSQL, MongoDB
ETL Tools:	Informatica, Talend
Statistical Tools:	SAS
Cloud:	Azure
Data Management:	Data Wrangling, Data Integration, Data Warehousing, Data Mining
Healthcare Knowledge:	HIPAA, Electronic Health Records (EHR), Healthcare Data Standards (HL7)
Methodologies:	Agile, Scrum, Kanban
Reporting:	Advance Excel
Collaboration Tools:	Jira, Confluence

Education

Masters in **Information Systems** – **Business Analytics**   **| Jan 2024**
California State University, Fullerton, CA

Experience

Cigna Healthcare Group, USA

Data Analyst   *| Feb 2024 – Present*

- Analyzed healthcare data from diverse sources, including EHR systems and claims data, to identify trends, patterns, and opportunities for improvement, enhancing decision-making processes for patient care and clinical outcomes.
- Conducted exploratory data analysis (EDA) using Python with Pandas, NumPy and Seaborn to uncover insights into operational efficiencies and device performance, informing data-driven optimization strategies.
- Designed and optimized SQL Server to streamline data collection, querying, and reporting processes, ensuring data integrity and supporting the development of economic models and cost calculators for health economics analysis.
- Implemented ETL processes to validate and transform data for Business Intelligence objectives, improving data accuracy, consistency, and the efficiency of report generation.
- Developed and maintained interactive dashboards and visualizations using Power BI to effectively communicate complex healthcare information, track key performance indicators (KPIs), and monitor healthcare quality metrics.
- Ensured compliance with healthcare regulations (HIPAA, HL7) during the implementation and integration of EMR software, maintaining data privacy and security standards.
- Reviewed and analyzed medical codes and claims to ensure accuracy and alignment with the care provided, facilitating proper reimbursement and compliance.

ValueLabs, India

Healthcare Data Analyst   *| Mar 2018 – Dec 2021*

- Applied Agile methodology within a cross-functional team to ensure efficient project execution, collaboration, and iterative delivery of healthcare data solutions.

- Conducted detailed exploratory data analysis (EDA) using Python libraries such as Pandas, Matplotlib, and Seaborn to identify trends and patterns in product data, supporting improved operational efficiency and clinical decision-making.
- Utilized SAS for advanced statistical analysis and predictive modeling of patient outcomes, providing accurate forecasts to inform strategic decisions related to patient care and resource allocation.
- Performed data mapping and logical data modeling, created diagrams, and utilized SQL queries to filter and analyze data, enhancing data accuracy and operational efficiency.
- Utilized statistical methods and quantitative techniques for data collection and analysis, ensuring data integrity validation through SQL queries.
- Collaborated with regional leaders to gather data on global reimbursement codes and payment amounts by procedure, country, and site of care, presenting findings through interactive Power BI dashboards.
- Supported regulatory compliance efforts by conducting audits, preparing reports, and assisting in implementing corrective actions to maintain adherence to healthcare regulations.
- Delivered Proof of Concepts (POCs) using Azure services to demonstrate innovative visualization solutions tailored to business requirements and objectives.
- Processed charge postings in EHR systems, handling billing for prescriptions and medical visits using ICD-10 and CPT codes for cancer patients.
- Communicated with providers and payers to process claims efficiently and gained a thorough understanding of HIPAA regulations for data privacy and security.
- Engaged with external stakeholders such as healthcare providers, payers, and regulatory agencies to exchange data, insights, and best practices, fostering a collaborative and knowledge-sharing environment.

Hexaware, India

Data Visualization Analyst   *| Jan 2017 – Feb 2018*
- Gathered business requirements by collaborating with end users, Project Managers, and SMEs to understand and document business processes, ensuring visualization solutions aligned with stakeholder needs.
- Created detailed Source-to-Target Mapping (STM) documents outlining data transformation logic, ensuring accuracy and consistency in visualization outputs.
- Installed, configured, and maintained Tableau Server across multiple environments to support scalable, enterprise-level visualization deployments.
- Integrated Python and NumPy with Tableau to perform advanced statistical analysis and enhance the depth of data insights presented in visualizations.
- Conducted data analysis and profiling using SQL on source systems such as Oracle and Teradata, ensuring data quality and integrity for visualization purposes.
- Developed interactive and customized Tableau Dashboards, incorporating Custom SQL from sources like Teradata, Oracle, and Hadoop, and performed data blending to provide comprehensive, cross-platform insights.
- Authored complex SQL scripts to create BI layers within the Teradata data warehouse, ensuring optimized data retrieval for Tableau reporting.
- Designed user-friendly dashboards and visualizations in Tableau, presenting data insights on multiple platforms to enhance user engagement and decision-making efficiency.

Certifications
- **Salesforce Administrator**
- **Salesforce AI Associate**