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| Shiva Vojjala  Contact   |  |  | | --- | --- | | Receiver with solid fill | 469-579-6808 | | Envelope outline | Shiva.vk9@gmail.com | | Marker with solid fill | Dallas, TX |   Technical Skills   * SQL * R (R, Markdown, Shiny) * Python * SAS * Teradata * Tableau * AWS * SSIS * Snowflake   Expertise   * Data Mining & Reporting * Machine Learning * Predictive Modeling * Clinical trials * Site payments * Project management * ETL * Database Management   Data specialized   * Medical/Rx claims * Clinical data * EDC * Biometric/Lab * ICD, CPT, NDC * SNOMED, LONIC * Medicaid/Medicare * CDA/CCDA * EMR (HL7/ FHIR Standards) * Diagnostic images * Death * Oncology | Summary  A dynamic professional with over 12 years of experience in health data analytics, skilled in R, Python, SQL and SAS programming. Proficient in handling diverse/complex datasets - from medical claims to Covid vaccination data, excels in leveraging machine learning and statistical analysis to improve health outcomes and payment models. | | |
| Experience | |  |
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| 2019 – Present**Principal Data Analyst** | Elevance Health | Wilmington, DE  * Devised a cost imputation algorithm for medical and pharmacy claims using Machine learning models, ensuring at least 95% accuracy. * Directed research partnerships with prestigious clients such as FDA, CHOP, and BMS, overseeing collaborative efforts aimed at advancing medical research and data-driven insights. * Supervised teams in exploring and investigating medical and pharmacy claims data, utilizing advanced analytical techniques to extract actionable insights and improve data quality. * Spearheaded the implementation of predictive analytical studies within the cancer domain, leveraging machine learning algorithms (e.g., regression, random forest, SVM, Naive Bayes, Neural Networks) to identify high-risk patient profiles and optimize insurance policies. * Orchestrated initiatives to integrate and analyze complex datasets including oncology, clinical trials, carveout data, mortality records, unstructured Electronic Medical Records (EMR), and COVID-related data. This involved developing frameworks and protocols for seamless data integration and analysis. * Implemented OMOP Common Data Model (CDM) on Anthem claims data, establishing standardized data structures and frameworks for processing and analyzing incoming data packages from external entities. * Developed and launched onboarding processes for new hires, enabling them to contribute effectively to team objectives within a shortened timeframe. * Designed and developed automated reporting solutions using R Markdown. These reports were tailored to generate site payments and letters for clinical trials efficiently. By automating this process, significantly reduced manual effort and improved accuracy in financial transactions and communication with trial sites. * Spearheaded the automation of multiple clinical trial dashboards and reports using R Shiny and Tableau. These interactive dashboards provided real-time insights into trial progress, patient enrollment, and key performance indicators. By leveraging R Shiny and Tableau's capabilities, enhanced transparency and decision-making for clinical trial management teams. * Utilized XML parsing, regular expressions, and NLP to extract information from unstructured fields in Electronic Medical Records and used in research. * Extracted Ejection fraction, bleeding, lab, medication and radiology information from EMR using advanced python and R libraries like SciSpacy and MedSpacy. * Accumulated expertise in handling and manipulating files conforming to HL7 standards. * Achieved significant efficiencies by automating processes, including the creation of research-specific databases, resulting in savings of 2000 programming hours annually.  2014 - 2019**Senior Data Analyst** | Elevance Health | Wilmington, DE  * Developed automated tools that streamlined the entire lifecycle of research projects, from generating counts and cohorts to producing final reports. These tools significantly improved efficiency and accuracy in project delivery. * Restructured Teradata SQL code, resulting in a remarkable 95% performance improvement of a critical research application within a tight timeframe of 2 months. * Collaborated with clinicians, research leaders, and legal entities to establish robust programming standards for research studies. These standards ensured consistency, efficiency, and compliance with industry regulations. * Designed and implemented standard logic for key segments including Placeflag, Type of Service, member lists, provider specialties, and Eligibility criteria. This standardized approach facilitated data integration and analysis across different projects. * Created optimized stored procedures adhering to programming standards. These procedures enhanced performance, ensured data security, and maintained high coding quality in research programming. * Led efforts to program, verify data quality, and manage extensive research datasets within health insurance claims databases. This involved ensuring data accuracy, completeness, and consistency for analytical purposes. * Conducted ad-hoc queries against a massive Teradata database containing over 5 billion claim records for more than 70 million members. Extracted and analyzed data to provide actionable insights and support business decisions. * Utilized advanced analytical techniques to perform comprehensive data analysis on healthcare data. Generated insights and actionable recommendations to address complex business questions and improve operational efficiencies.  2013 –2013**Data Analyst** | RAPP | Dallas, TX  * Enhanced the ROI by 20% through customer segmentation and data analysis in SAS. * Mined, analyzed and developed reports on data using SAS and SQL programming for interpreting the consumer landscape, including media consumption behavior, Cultural Intelligence dynamics and consumer trends through the exploration of syndicated research, social media data and customer profile data.   **2013-2013**  **Analyst** | Zimmer Inc | Warsaw, IN   * Gathered business needs from business teams and determined functional and technical requirements. * Developed attractive real time reports using Xcelsius dashboards and crystal report tools.   **2010-2012**  **Data Analyst** |Wipro | Hyderabad, India   * Leveraged SAS and SQL programming to mine, analyze, and report on the consumer landscape and trends, including media usage, cultural dynamics, and customer profiles.   **2010-2012**  **Intern** | Honeywell Technologies | Bangalore, India   * Tested the C++ program which populates the data in pilot dashboard and reported to the development team. | | |
| Education |  | |
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| MS in Information Technology and Management | The University of Texas at Dallas, USA  Bachelor of Technology in Information Technology | Vellore Institute of Technology, India | | |