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|  | Shreya Rachuri | [**shreyaranga96@gmail.com**](mailto:shreyaranga96@gmail.com)**;** [**shreya.sumana1649@gmail.com**](mailto:shreya.sumana1649@gmail.com)**;**  **(414) 949-3199; 3975 N Cramer St, Apt 205, Shorewood, WI 53211** |

**TECHNICAL SUMMARY:**

**Clinical SAS Programmer** with up to 2 years of experience in the healthcare and hospital industry.Skilled in data analytics and database management in the healthcare domain using, SAS®, Python, and SQL.Excellent analytical, problem solving, and interpersonal skills with ability to work individually as well as a part of a team. Actively seeking full-time positions in clinical statistician operations and healthcare data analytics.

**TECHNICAL EXPERTISE:**

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| **Certifications:** | SAS Certified Specialist: Base Programming Using SAS 9.4,  Python – Programming for Everybody, MySQL – From MySQL Beginner to Expert.  CPR First-aid, and BLS for Healthcare providers by the AHA. |
| **Computational Tools:** | Statistical analysis using SAS® (Base SAS®, SAS Studio® University Edition, SAS/GRAPH®, ODS, SQL, Macros).  Big data processing with Apache Spark, data mining and analytics, natural language processing using Python and Anaconda. |
| **Database/Software:** | OpenEMR, Protégé, MySQL, SQLite, PyCharm, Jupyter Notebook, Atom, and  Microsoft Office: Word, PowerPoint, Excel, Access. |

**PROFESSIONAL EXPERIENCE:**

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| **Clinical SAS Programmer** | **University of Wisconsin - Milwaukee** | **(Jan 2021 – Current)** |

**Statistical programming support for Phase II & Phase III clinical trials in the therapeutic areas; Diabetes Mellitus and Hodgkin’s Lymphoma.**

* Used SAS/ACCESS® to import clinical trial data into SAS® and generated SDTM and ADaM datasets by applying IG and following CDISC standards.
* Checked CDISC SDTM compliance on the datasets using Pinnacle 21 and Open CDISC Validator.
* Investigated missing values and data anomalies and performed data manipulation on SAS® Datasets using interleaving, merging, appending, concatenating, and sorting.
* Utilized MACROs to perform data analysis and created tables, listings and graphs including patient demography, adverse events, vitals, con meds, laboratory etc.
* Interacted with biostatisticians regularly for programming and validation of clinical data.
* Generated reports in html, pdf, and rtf formats using SAS® output delivery system (ODS).

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| **Data Analyst (Capstone Project)** | **University of Wisconsin - Milwaukee** | **(Sep 2020 – Dec 2020)** |

**Predictive analytics study on heart disease outcome classification based on risk factors diagnostic data using Anaconda.**

* Performed exploratory data analysis to comprehend the data spread and subsequently applied data cleansing operations to account for missing values and outliers.
* Applied correlation matrix and random forest classifier to perform feature selection and scaling.
* Evaluated the prediction accuracy of multiple ML models namely, SVM, KNN, Decision Tree, Logistic Regression and pipelined the models by evaluating a differential train test split of the data to overcome overfitting.
* Simultaneously visualized the results by implementing the execution in a Jupyter Notebook.

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| **Research Assistant** | **University of Wisconsin - Milwaukee** | **(Jan 2020 – Aug 2020)** |

**Statistical Analysis of high-throughput data using SQL**

* Implemented ETL(extract, transform, load) system for high-throughput experimental data generated from continuous online confocal laser scanning confocal microscopy (CLSM) of biofilm growth into a SQL database.
* Monitored the data output on a regular basis and provided statistical insights into the biofilm growth.
* Prepared dashboard reports and SQL query reports for extracting and visualizing experimental findings.

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| **SEER Cancer Data Analysis** | **University of Wisconsin - Milwaukee** | **(Jan 2020 – Aug 2020)** |

* Extracted cancer data from txt and csv files of de-identified records from the SEER program and applied wrangling activities to perform quantitative analysis of disease trends using Python scripts.
* Constructed an ICD-O-3 dictionary by importing disease names as values and disease codes as keys from the wrangled data.
* Identified potential trends and process errors, implemented the required modifications, prepared a report on the findings.

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| **Jr. Dentist & Healthcare Informatician** | **Sindhu Super Specialty Dental Hospital, Oral & Maxillofacial Trauma Care-Implant Centre, India** | **(Jan 2019 – Jun 2019)** |
| **Viraj Multispecialty Dental Clinic, India** | **(Jun 2018 – Dec 2018)** |

* Implemented Hospital’s EMR system in maintaining healthcare records, hospital workflow, and billing procedures.
* Created dashboard reports and prepared SQL query reports for problem-solving and extracting data insights.
* Assisted in analyzing and monitoring clinic budgets and annual expenditures, and clinic profits using SQL.
* Assisted with ongoing research in the clinic, preparing and writing research reports, manuscripts, papers, and proposals for newer projects.
* Extracting, transforming, and loading data(ETL) from small to medium sized databases into a SQL data warehouse.
* Regular counseling to the patients about daily health maintenance procedures, hygiene, and preventive measures.
* Performed various diagnostic and treatment procedures such as cleaning and polishing, removing teeth, teeth fillings, and root canal procedures; preventive procedures include fluoride solution and varnish applications.
* Performed various corrective procedures such as teeth alignment, elimination of spacing and crowding, and teeth replacement with artificial dentures.

**EDUCATION:**

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| **Master’s in Healthcare Informatics** | **(Sep 2019 – May 2021)** |
| College of Health Sciences, University of Wisconsin - Milwaukee | |
| **Bachelor’s in Dental Surgery** | **(Aug 2013 – Sep 2018)** |
| Government Dental College and Hospitals, Hyderabad, India | |