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|  | Shreya Rachuri | |
| A picture containing text  Description automatically generated | Statistical Programmer | **Mobile:** (414)9493199  **Email:** [shreyaranga96@gmail.com](mailto:shreyaranga96@gmail.com) |
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| **Technical Summary** | | |

* **Statistical Programmer** with **3** years of experience in analysis, design, development, and implementation of SAS programs in the clinical research industry
* Expertise in **Base SAS, SAS/MACROS, SAS/SQL, and SAS/ODS** in Windows environment
* Experienced with clinical trial methodologies, exposure to phases of clinical trials in various therapeutic areas and well versed with medical terminology
* Experience in data cleaning process and performing edit checks by working closely with the CDM group
* **Created** and **validated** analysis datasets and **tables, listings, and graphs**
* Thoroughly experienced in programming validation - **double programming** method for critical outputs
* Good experience in **oncology,** **anti-metabolic**, and **cardiology** areas
* Analyzed clinical trial data and created **SDTM** and **ADAM datasets**, **tables, listings, graphs**, reports, and summaries, according to the **protocol** and **statistical analysis plans**, as per the clients’ requests
* Experienced in producing RTF, PDF, and HTML formatted reports using SAS
* Proven ability to work effectively on multiple tasks simultaneously and meet project deadlines
* Excellent analytical, problem-solving, communication, and interpersonal skills, with the ability to interact with individuals at all levels. Ability to work efficiently as part of a team and as an individual. Enthusiastic, innovative, and challenge oriented
* Possess a strong ability to adapt and learn new technologies and new study lines rapidly

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|  | **Technical Expertise** |

Statistical Analysis using SAS® (SAS® STAT, SQL, MACROS, PROC'S, V8/V9 and GRAPH)

**Software Proficiency:** PINNACLE 21, CDISC Validator, Atom, Jupyter Notebook, PyCharm, MySQL, SQLite, Protégé, MS Office - Word, Excel, PowerPoint, Access, Project

**OS:** Linux, Windows

**Certifications:** SAS Certified Professional; **Advanced** Programming Using SAS 9.4, **Base** Programming Using SAS 9.4, Python Data Structures from University of Michigan, MySQL – From MySQL Beginner to Expert

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|  | **Professional Experience** |  |

**Duke Clinical Research Institute**

**Statistical Analyst Programmer (Aug 2021 – Feb 2022)**

* Provided statistical support in the cardiology therapeutic area for both adult cardiac and congenital cardiac diseases.
* Documented, maintained, and executed complex codes for analysis and reporting purposes
* Provided primary support and assistance in data cleaning, reporting and validation operations during the periodic harvests of thoracic disease data.
* Worked collaboratively with statisticians and clinical data managers in analyzing the harvest data and generating reports
* Involved in reviewing and modifying mock-shell development, derived-dataset specifications, programming specifications, and other process-supporting documents.
* Played a key role in developing and debugging the project-specific SAS programs to generate derived SAS datasets, summary tables, and data listings in accordance with the departmental standards
* Produced ad hoc reports according to work requests and standards from clients and internal requests from the manager
* Performed extensive QC (quality check) and analysis in reviewing and rendering other team members’ work
* Validated analysis datasets with other programmers’ SAS outputs and mockups in SAP using PROC COMPARE, PROC CONTENTS, and PROC FREQ and performed parallel programming with fellow programmers.
* Prepared RTF, PDF, and HTML formatted reports according to the client standards and specifications using SAS output delivery system (ODS).
* **Environment:** UNIX, SAS STUDIO, SAS/BASE, SAS/MACRO, SAS/SQL, SAS/ODS, SAS/STAT

**University of Wisconsin – Milwaukee**

**Statistical Programmer (Research Associate) (Sep 2019 –May 2021)**

* Provided statistical programming support …
* Used SAS/ACCESS to extract data into SAS, created datasets and analyzed the data based on the demographic information
* Investigated missing data and data anomalies in SAS data sets.
* Extensively performed data manipulation on SAS datasets using various techniques such as sorting, interleaving, merging, appending, and concatenating.
* Wrote edit-check programs for data validation before final analysis
* Generated reports using PROC TABULATE, DATA \_NULL\_, PROC REPORT and found out descriptive statistics using PROC MEANS, PROC FREQ, PROC SUMMARY, PROC SQL, and PROC UNIVARIATE.
* Created tables, listings, and graphs, including patient demography, adverse events, vitals, con meds, and laboratory
* Prepared reports in RTF, PDF, and HTML formats using SAS output delivery system (ODS)
* Experienced with ad hoc programming and reporting
* Participated in creating the reviewer’s guide and the eCRT package for client submission
* Interacted with biostatisticians regularly for programming and validation of clinical data in analysis data sets
* Participated in regular group meetings with the clinical research teams and the statistician to peruse the results.
* **Environment:** SAS 9.1/9.2 Windows NT/7, SAS/BASE, SAS/MACRO, SAS/ACCESS, SAS/SQL, SAS/ODS, SAS/STAT, and SAS/GRAPH

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|  | **Academic Experience** |  |

**University of Wisconsin – Milwaukee**

**Capstone Project (Jan 2021 – May 2021)**

* Implemented a predictive analytics study on heart disease outcome classification based on risk factors diagnostic data using Anaconda.
* Implemented the ETL(extract, transform, load) system in SQL to prepare the data for further analysis.
* Performed exploratory data analysis to comprehend the data spread.
* 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.
* Also prepared dashboard reports and SQL query reports for extracting and visualizing the findings.

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|  | **Education** |  |

**Master’s Degree in Healthcare Informatics (Sep 2019 – May 2021)**

College of Health Sciences, University of Wisconsin – Milwaukee