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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** |

**PROFESSIONAL EXPERIENCE:**

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| **Data Analyst (Capstone Project)** | **University of Wisconsin - Milwaukee** | **(Nov 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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| **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.

**PROJECTS:**

**Statistical Analysis and Modeling on Diabetic data using SAS 9.4 (Current Project)**

* Imported data from multiple csv files to create standard SAS datasets, by sorting, cleaning, and filtering the raw data.
* Merged tables into single dataset and applied data validation using standard validation techniques.
* Performed exploratory analyses to draw insights into the prevalence of disease occurrence by age, gender, race, and geographical location.
* Utilized macro variables to perform the analysis seamlessly across all the factors of interest.
* Extracted analysis datasets, summary tables, listings, and plots to present the demographic insights and generated reports in html, pdf, and rtf formats.

**SEER Cancer Data Analysis using Python 3**

* 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.

**TECHNICAL SKILLS:**

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| **Certifications:** | SAS Certified Specialist: Base Programming Using SAS 9.4, Tableau,  Python – Programming for Everybody, MySQL – From MySQL Beginner to Expert. |
| **Computational Tools:** | Big data processing with Apache Spark, data mining and analytics, natural language processing using Python and Anaconda, and data visualization and reporting using Tableau |
| **Software:** | Atom, Jupyter Notebook, , PyCharm, MySQL, SQLite, Protégé, and  Microsoft Office: Word, PowerPoint, Excel, Access. |

**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 | | |
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**PROFESSIONAL EXPERIENCE**

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| **Data Analyst (Capstone Project)**  **University of Wisconsin – Milwaukee**  **(Nov 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 munging 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 analyze overfitting. * Simultaneously visualized the results by implementing the execution in a Jupyter Notebook. |
| **Data Analyst (Professional Project)**  **University of Wisconsin – Milwaukee**  **(Nov 2020 – Dec 2020)** | **Statistical Analysis and Modeling on Diabetic data using SAS 9.4**   * Imported data from multiple CSV files to create standard SAS datasets, by sorting, cleaning, and filtering the raw data. * Merged tables into single dataset and applied data validation using standard validation techniques to perform data analyses. * Performed exploratory analyses to draw insights into the prevalence of disease occurrence by age, gender, race, and geographical location. * Utilized macro variables to perform the analysis seamlessly across all the factors of interest. * Extracted analysis datasets, summary tables, listings, and plots to present the demographic insights and generated reports in html, pdf, and rtf formats. |
| **Junior Dentist & Healthcare Informatician**  **Sindhu Super Specialty Dental Hospital, Oral & Maxillofacial Trauma Care-Implant Centre, India**  **(Jan 2019 – Jun 2019)** | * 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. |

**TECHNICAL SKILLS:**

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| **Certifications:** | SAS Certified Specialist: Base Programming Using SAS 9.4, Python – Programming for Everybody, MySQL – From MySQL Beginner to Expert, Tableau. |
| **Computational Tools:** | Big data processing with Apache Spark, data mining and analytics, and natural language processing using Python and Anaconda. |
| **Software:** | Atom, Jupyter Notebook, , PyCharm, MySQL, SQLite, Protégé and Microsoft Office: Word, PowerPoint, Excel, Access. |

**EDUCATION:**

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| **Master’s in Healthcare Informatics** | **(Sep 2019 – May 2021)** |
| College of Health Sciences, University of Wisconsin - Milwaukee | |
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