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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** | **(Sept 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)** |

* Implemented OpenEMR system in maintaining healthcare records, hospital workflow, and billing procedures.
* Strictly implemented HIPAA standards in maintaining patient privacy and ICD-10 and HL7 coding for data entry.
* Extracted, transformed, and loaded data(ETL) from small to medium-sized databases into a SQL data warehouse.
* Build and maintained SQL scripts and queries for data analysis, extracting data insights and problem solving.
* Created quarter and annual reports regarding clinic budgets, annual expenditures, and profits using SQL.
* Build Activity diagrams to monitor business flow and Use Case diagrams to analyze the situations.

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| **Jr. Dentist & Healthcare Informatician** | **Viraj Multispecialty Dental Clinic, India** | **(Jun 2018 – Dec 2018)** |

* 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 applying the CDISC SDTM and ADaM standards.
* Merged tables into a 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 |
| **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, Unified Modeling Language. |
| **Software:** | Atom, Jupyter Notebook, , PyCharm, MySQL, SQLite, Protégé, and  Microsoft Office: Word, PowerPoint, Excel, Access. |
| **Online Certifications:** | Python – Programming for Everybody, MySQL – From MySQL Beginner to Expert, Tableau. |

**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 | |