

# PAVAN KALYAN MASHETTI

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## EDUCATION

California State University East Bay, California, USA

**Master of Science in Information Systems**, GPA: 3.67

December 2023

Sreenidhi Institute of Technology and Science, Hyderabad, India

**Bachelor of Technology in Computer Science**

August 2021

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## WORK EXPERIENCE

**Research Assistant**, California, USA

Aug.2023 - Dec.2023

- Utilized R Programming to develop statistical analyses and graphical outputs, including the creation of various charts, graphs, and visualizations for data interpretation and reporting.
- Developed Shiny data visualization dashboard and task automation procedures in R and Python.
- Produced data Anomaly reports by creating edit check programs and providing feedback to the data management for cleaning the data.
- Extensively involved in peer validation of SAS programs and programmed edit checks to report inconsistencies and discrepancies in the database.
- Prepared data packages like CRT package for submission to regulatory authorities.

**Dofort**, R programmer, India

Aug.2021 - Dec.2021

- Developed and implemented R and Shiny application which showcases machine learning for business forecasting.
- Utilized R programming to conduct comprehensive data analysis and visualization for multiple clinical trials within a CRO environment. Generated insightful plots and graphical representations to facilitate data interpretation and decision-making processes.
- Ensured adherence to CDISC standards for clinical trial data management by implementing SDTM and ADaM specifications using R programming.
- Produced ADAM datasets for ADTTE and ADSZ (Seizure) and conducted LOCF in ADAM datasets to impute missing values.
- Contributed to Phase II and III clinical trials in Oncology, CNS, and Respiratory fields.
- Conducted mapping of CRF/raw data using R to designated datasets in adherence to CDISC standards
- Assumed a pivotal role in the comprehensive cleaning and transformation of healthcare claims and standard data, ensuring seamless integration from diverse sources.
- Conducted data cleaning and transformation on EHR healthcare data using SAS and SQL before statistical analysis, ensuring data quality.
- Led and directed R programming initiatives, showcasing leadership in steering teams toward successful project outcomes. Effectively managed and coordinated tasks, providing guidance to team members to optimize R programming processes.

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## TECHNICAL SKILLS

Technical Skill: Data Analysis | Statistical Modelling | R Programming | SQL | Hive | Python | Tableau | Machine Learning | Base SAS

**Functional Skills:** Data analysis | Statistics | Data Visualization | Time Series Analysis | Probability and statistics.

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## ACADEMIC PROJECTS

### **SDTM and ADaM**

- Mapped raw data to CDISC-specific SDTM domains and created ADaM datasets.
- Created datasets and TLFs using SAS macro and Macro variables to improve ease and speed up the modification process for ad-hoc reporting.
- Worked with MedDRA and WHO Drug dictionaries extensively.

### **Hotel Management DBMS**

- Convert electronic lab data from MS Excel, Text files into SAS raw datasets using DDE (Dynamic Data Exchange), Proc Import, and other SAS techniques.
- Validated SDTM and analyzed datasets, tables, listings, and figures by Parallel programming to ensure that output meets quality standards and project requirements.
- Created Reports for Integrated Summary of Safety and using Integrated ISAP, Integrated analysis datasets, and mock-ups of the reports.