

SUKALPO SAHA

R and Shiny Developer with 8+ years of experience in the Pharmaceutical Industry

Developing production ready R packages and Shiny applications which enable creation of company standard ADaM data sets, Tables and Figures, and interactive exploration of statistical analysis results, to support medical writing and/or publishing of the clinical study reports, planned analysis, and any other adhoc result.

Passionate about innovating, modernizing statistical programming and reporting using open-source tools and technologies (R/Python); building web applications with cutting edge UI/UX and data visualizations.

EXPERIENCE

Present
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2025

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Analytics Principal Statistical Programmer

Hyderabad, IN

- As a Senior Clinical Analytics Specialist (CAS), responsible for the design, development, and implementation of multiple, complex R-based packages and Shiny applications.
- Provide technical guidance and mentor junior CAS members and drive innovation in R package and Shiny development practices.
- Collaborate with Clinical Analytics Specialists, Statistical Scientists, project leads and other stakeholders to design, develop, document, test and maintain multiple, complex R based packages and Shiny applications, ensuring scalability, performance, and maintainability, following internal and external guidance's.
- Collaborate with stakeholders to gather requirements, define project scope, and propose technical solutions aligned with business objectives.
- Drive innovation in R package and Shiny development practices, exploring new technologies, tools, and methodologies to improve efficiency and quality.
- Establish and enforce coding standards, best practices, and guidelines for R package and Shiny development within the team.
- Conduct performance optimization and code re-factoring to improve the overall efficiency and reliability of R-based software solutions.

2025
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2022

Pfizer

Principal Statistical Data Scientist

Mumbai, IN

- Maintaining the [admiralvaccine](#) R package (Vaccine extension of [admiral](#)) within the [pharmaverse](#) group of packages.
- Co-developer of the [admiralped](#) R package (admiral package extension for pediatric trials).
- Contributing in development of the R package(s) to create Pfizer Specific ADaM data sets and TLFs.
- Contributed in developing the R Shiny Web application [cvars](#) wrapped as an R package to generate interactive forest and volcano plots for for adverse event and FDA Medical Queries (FMQs) analysis outputs for inclusion in submissions to the FDA.
- Create/maintain customized CI/CD pipelines for R packages using Github Actions.
- Training/mentoring associate/junior programmers and data scientists in developing R packages and Shiny applications.

2022
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2021

GSK

Senior Programmer (R & Shiny)

Bangalore, IN

- Work with clinical programmers/statistical analysts and other internal customers to understand business requirements and industry regulations.
- Design, create, maintain, and develop standard tools and applications for internal customers.
- Provide scalable, secure, and modern UI/UX when required.
- Provide high quality and efficient code, perform code review, writing unit tests, end-to-end tests, and sharing of best practices.
- Hands-on with clinical trial data to create appropriate and high-quality tools.
- Deliver documentation and training material for standard tools and applications.



Contact

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Programming Languages

R
Shiny
SAS
JMP
Python

Domain Knowledge

Statistical Analysis
Data Analytics
CDISC Standards
Good Clinical Practice
Tables and Figures

Languages

English
Bengali
Hindi

2021
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2017



Business Process Lead (Team Lead)

📍 Mumbai, IN

- Team lead for the Centralized Statistical Monitoring and Quality Tolerance Limit (QTL) team consisting a group 10-12 Statisticians/Statistical Programmers.
- Co-developer of the in-house R package used in QTL Analysis (based on Bayesian Hierarchical Model) for Key Risk Indicators i.e. Adverse Events, Serious Adverse Events, Ongoing, Baseline Protocol Deviations and also Study specific parameters.
- Developed a Shiny application to trigger the QTL Reports quarterly for each study.
- Helped study teams set up and implement QTLs in their respective studies, and take actions in case of a breach.
- Created a Shiny application to monitor the impact of Covid-19 on Clinical data quality based on Adverse Events, Protocol Deviations, Missing Visits etc



EDUCATION

2017



University of Hyderabad

M.Sc in Statistics

📍 Hyderabad, IN

Specialization: Biostatistics, Operations Research

Class: First

2015



University of Calcutta

B.Sc in Statistics

📍 Kolkata, IN

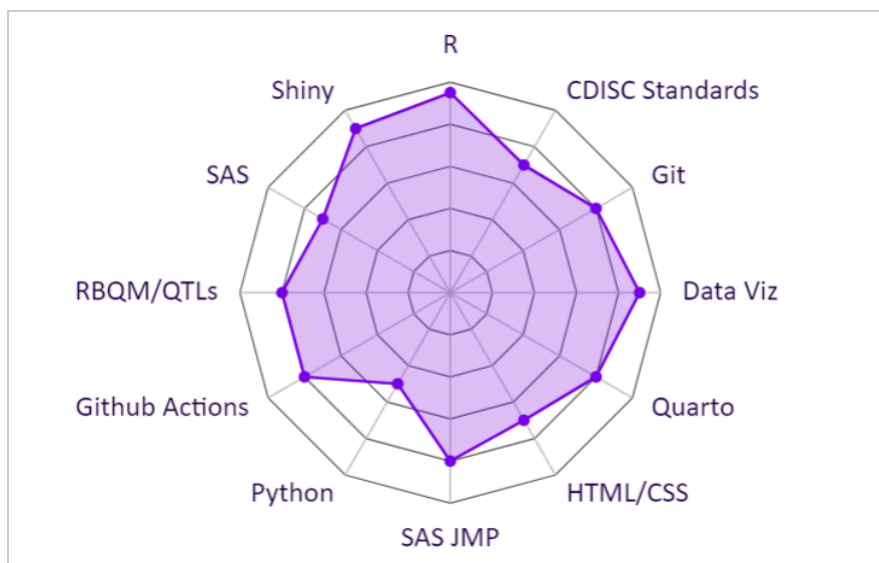
Major: Statistics

Minors: Economics, Mathematics

Class: First



SKILLS SUMMARY





PUBLICATIONS/PRESENTATIONS

- 2024 ● **Posit Table Contest (Winner of Best Static Table Category)**
[Rolling Stones' Greatest Albums of All Time](#) 📍 Remote
- 2024 ● **Posit Table Contest (Honorable Mention)**
[Tidy Shift Tables in R](#) 📍 Remote
- 2023 ● **Clinical Visual Analytics for Review and Submission**
[Presentation](#) for PHUSE SDE India 📍 Chennai, IN
- 2020 ● **Utilizing a Bayesian Hierarchical Model to Design Quality Into a Clinical Trial**
[Poster](#) for DIA Global Annual Meeting 📍 Virtual