RUCHA BHAT ASSOCIATE MANAGER, BIOLOGICAL EVALUATION & STATISTICS

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SUMMARY

Adaptable statistician with demonstrated skills in statistical analysis, problem-solving, and learning new techniques. Takes initiative to foster personal growth both individually and in cross-functional team settings. Known for strong communication skills and creating clear reports from complex information to influence decision-making in a fast-moving start-up environment.

EDUCATION

**Texas A&M University**, College Station, TX Jun 2019 - May 2021

# MS in Statistics, Emphasis in Biostatistics & Applied Statistics, GPA = 3.91

* Assessed various statistical models to analyze time-series data using sparse principal components analysis and regularized singular value decomposition techniques
* Implemented random forest, neural network, and k-nearest neighbor algorithms for classification
* Completed coursework in Categorical Data Analysis, Applied Multivariate Analysis, Bayesian Statistics, Biostatistics, and Linear Regression

**University of Virginia**, Charlottesville, VAAug 2013 - May 2017

BS in Biomedical Engineering*, Minor in Economics*

SKILLS

Programming Languages R (Proficient) – tidyverse, dplyr, ggplot2 Python (Novice)

SAS 9.4 (Intermediate) SQL (Novice) Java (Novice)

Statistical Analysis Data Management Exploratory Data Analysis Unsupervised Learning

Supervised Learning Statistical Modeling A/B Testing

Spoken Languages Hindi Marathi Konkani

Additional Skills Critical Thinking Adaptability Creativity

CERTIFICATIONS Advanced Programming Using SAS 9.4 Base Programming Using SAS 9.4

EXPERIENCE

**Contraline, Inc.**, Charlottesville, VA

*Associate Manager, Biological Evaluation & Statistics* Jul 2021 – Current

* Increased efficiency of figure generation by managing an organized centralized repository for data storage
* Managed execution and logistics of packaging for medical device alongside Sr. Project Manager

*Research Statistician I, II* Jun 2020 – Jun 2021

* Promoted to Level II upon demonstration of data management and effective communication skills
* Developed prediction models on accelerated time-to-failure data for regulatory documentation
* Constructed statistical analysis reports on early-adopter survey responses to guide marketing decisions
* Generated 40+ analytical and technical reports for cross-departmental collaboration
* Consulted with Research and Development (R&D) team to design experiments for data collection

*Research Scientist I, II, III* May 2017 - May 2020

* Promoted to Level III upon execution of experimentation to reach key R&D milestones
* Managed execution of pre-clinical testing with 5 Contract Research Organizations (CROs) alongside CTO
* Developed tools for research material inventory management in partnership with Operations department
* Authored and executed 10+ standard protocols for novel experimentation techniques