PRIYA SHARMA, PhD

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PROFESSIONAL SUMMARY

Research scientist with a PhD in Biostatistics transitioning to data science. 6+ years of experience applying advanced statistical methods and machine learning to healthcare and clinical research problems. Strong publication record demonstrating expertise in predictive modeling and causal inference.

SKILLS

- **Programming Languages**: R (Advanced), Python (Advanced), SQL (Intermediate), SAS (Advanced)
- **Data Science Libraries**: Pandas, NumPy, scikit-learn, TensorFlow, tidyverse, caret
- **Statistical Methods**: Regression, Time Series Analysis, Bayesian Methods, Survival Analysis, Causal Inference
- **Machine Learning**: Random Forests, Gradient Boosting, Neural Networks, Clustering
- **Data Visualization**: ggplot2, Matplotlib, Seaborn, Shiny
- **Tools**: Git, Docker, RStudio, Jupyter

PROFESSIONAL EXPERIENCE

SENIOR BIOSTATISTICIAN

GenomeTech Research, South San Francisco, CA

August 2020 - Present

- Lead statistical analysis for clinical trials, genomic research, and drug discovery projects
- Develop machine learning models to predict patient responses to experimental treatments, improving trial success rates by 25%
- Create and maintain R packages for internal analysis workflows
- Design statistical frameworks for complex clinical study designs
- Collaborate with cross-functional teams of biologists, clinicians, and data engineers
- Mentor junior statisticians and data analysts

RESEARCH SCIENTIST

Stanford Medical Center, Stanford, CA

June 2017 - July 2020

- Developed predictive models for patient outcomes using electronic health record data
- Applied natural language processing to extract insights from clinical notes
- Created interactive dashboards for visualizing clinical trial results
- Collaborated on research leading to 8 peer-reviewed publications
- Designed and taught workshops on statistical methods for medical researchers

EDUCATION

PhD in BIOSTATISTICS

Harvard University, Cambridge, MA

2013 - 2017

- Dissertation: "Machine Learning Approaches for Predicting Treatment Effects from Observational Data"
- Published 4 first-author papers in top biostatistics and medical informatics journals
- Research Fellowship: National Institutes of Health (NIH)

MS in STATISTICS

Stanford University, Stanford, CA

2011 - 2013

- GPA: 3.95/4.0
- Thesis: "Bayesian Methods for Analyzing Medical Imaging Data"

BS in MATHEMATICS

University of California, Los Angeles, Los Angeles, CA

2007 - 2011

- GPA: 3.9/4.0
- Summa Cum Laude
- Minor: Computational Biology

PUBLICATIONS & PRESENTATIONS

- Sharma, P., et al. (2023). "Machine Learning for Personalized Medicine: Challenges and Opportunities." *Nature Methods*.

- Sharma, P., et al. (2022). "Causal Inference Methods for Estimating Treatment Effects from Electronic Health Records." *Journal of the American Medical Informatics Association*.
- Sharma, P., et al. (2021). "Predicting Hospital Readmissions Using Deep Learning Models." *Healthcare Analytics Conference*.
- 5 additional peer-reviewed publications in statistical methods and healthcare analytics

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Deep Learning Specialization, Coursera
- AWS Certified Machine Learning - Specialty
- Member, American Statistical Association
- Reviewer for Journal of Machine Learning Research and Bioinformatics journals