Asim Datye

Data Scientist / Biostatistician

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I am a self-driven Engineer/Biostatistician. My personal goal is to work in a company where data informs every important decision from R&D to commercialization. Having worked on research publications and in the pharmaceutical industry, I have a good understanding of the entire drug development pipeline; from discovery to submission. I hope to bring this experience to fruition in an industry role in healthcare consulting, pharma or public health.

SKILLS

Tools and Languages	R/RShiny/RMarkDown, Python, Jupyter Notebooks, SAS, SQL, Google Cloud Platform, Git
Quantitative Research	Survival Analysis, Clinical Trial Design, Regression Techniques, Machine Learning

TECHNICAL EXPERIENCE

MANUFACTURING DATA SCIENTIST   FEB 2022 — Present
Hoffmann-La Roche / Genentech   *Toronto, Ontario*

- Collaborated with a team of data scientists and engineers to increase biologics yield; explored data in Google Cloud Platform and tested multiple ML models in Python (random forest, lin. reg, xgboost) improving yield by 2% equivalent to $3M product/year
- Identified drivers of higher drug potency and purity using a combination of lasso and multi-target regression

STUDY STATISTICIAN   MAY 2019 — Present
Hoffmann-La Roche / Genentech   *Toronto, Ontario*

- Designed protocols and statistical analysis plans for pivotal clinical trials (A/B testing), collaborating with stakeholders in medical monitoring, clinical science, and safety science
- Led Biometrics (biostatistics, data management, statistical programming) teams to deliver key clinical trial results to regulatory authorities (FDA, EMA) and safety monitoring committees
- Co-led a team of statisticians and programmers to integrate health technology assessments (HTA) across studies using R, and published the prognostic value of patient reported outcomes in a scientific journal
- Built a new dashboard in RShiny to visualize Bayesian overdose probability in ph1b studies, allowing clinical science to make real-time data driven decisions in trials

LECTURER   APR 2021 — MAY 2021
Bay River College   *Remote*

- Taught biostatistics principles students interested in clinical research, including creating assignments and grading

DATA CURATOR   DEC 2018 — MAY 2019
Ontario Neurodegenerative Disease Research Initiative (ONDRI)   *Toronto, Ontario*

- Eliminated 50% of manual cleaning, curating and packaging of retinal images from Heidelberg machine by using R

STATISTICAL SUPPORT   OCT 2018 — MAY 2019
Baycrest Rotman Research Institute   *Toronto, Ontario*

- Developed an ML diagnostic tool to predict dementia diagnosis achieving a maximum accuracy of 70%

EDUCATION

Master of Science in Biostatistics, *University of Toronto*	2019
Bachelor of Applied Science in Chemical Engineering, *University of Toronto*	2018
Summer Research Semester, National University of Singapore	2015
Dean's Admission Scholarship, University of Toronto	2013

ACTIVITIES

Founder & Co-President, Skule Badminton Club	2013-2018
Co-President, Galbraith Society	2014-2018