Shaun Porwal

New York, NY (732) 318-7592 shaun.porwal@gmail.com https://shaunporwal.com U.S. Citizen

Shaun Porwal
shaunporwal

Education

Icahn School of Medicine at Mount Sinai — **March 2021**

Master's in Biomedical Data Science (MS)

Rutgers University - New Brunswick — **May 2019**

Bachelor's in Biomedical Engineering, Chinese (BE)

Projects

`dcurves` Python Library - https://decisioncurveanalysis.org

- Developed Python package (GitHub Link, PyPI Link) implementing Decision Curve Analysis to evaluate binary and survival models; over 20k downloads
- Built and maintain decisioncurveanalysis.org, an instructional website with a technical forum for DCA users, answering advanced user questions (links: 1, 2, 3)

Experience

Memorial Sloan Kettering Cancer Center — **March 2021 to Present**

Data Analyst/Engineer — New York, NY

- Engineered data pipelines with SQL-extracted institutional data and wrote statistical code for Amplio, allowing sarcoma, melanoma, whipple, gastrectomy, and liver surgeons to see patient outcomes
- Developed AI-driven radiology pipeline, fine-tuning Llama3.1 and image segmentation models, with results visualized via an interactive RShiny dashboard
- Led statistical analyses for a landmark study on post-chemotherapy RPLND policies in testicular cancer, applying cutting-edge methods (GAM, logistic regression, Kaplan-Meier, CoxPH, DCA) to produce actionable insights (coming soon)
- Conducted a hospital-wide patient comorbidity analysis using survey data, validating with Posit's 'pointblank,' and demonstrated the survey's effectiveness in improving billing accuracy for patient visits

Sema4 — **February 2020 to February 2021**

Bioinformatics Intern — Stamford, CT

- Automated large mutation detection for whole genome sequencing (WGS) data with Bash, DRAGEN, and AWS S3/EC2
- Designed a pipeline to clean and compare results from mutation detection algorithms (e.g., DRAGEN) to explore the origin different pancreatic tumors
- Visualized genomic data using R & Python to present findings to my research group and capstone defense committee

Languages

Mandarin Chinese ●●●●●

Hindi ●●●●●

Japanese ●●●○○

Spanish ●●●○○

Publications

https://scholar.google.com/citations?hl=en&user=eR7hro0AAAAJ