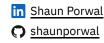
Shaun Porwal

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Skills

Python, R, Bash, SQL, Statistics, Self-Directed Task Completion, Communication, Collaboration, Learning, Reading, Writing

Open-Source Projects

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

August 2021 - Present

Developed Python package (GitHub Link, PyPI Link) to evaluate binary and survival models; over 25k downloads; built and maintain instructional website + technical forum, 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 cuttingedge 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

Education

Icahn School of Medicine at Mount Sinai

March 2021

Rutgers University - New Brunswick

May 2019

Master's in Biomedical Data Science (MS)

Bachelor's in Biomedical Engineering, Chinese (BE)

Languages

Mandarin Chinese

Hindi

Japanese

Spanish









Publications

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