Shaun Porwal

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in 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 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

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**

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Publications

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