Shaun Porwal

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in Shaun Porwal shaunporwal

Open-Source Projects

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

August 2021 - Present

(GitHub Link, PyPI Link) over 27k downloads, evaluates binary and survival models; built and maintain instructional website + technical forum, answering advanced user questions (links: $\underline{1}$, $\underline{2}$, $\underline{3}$)

`surgeon-stats` - https://github.com/juntotechnologies/surgeon-stats

February 2025 - Present

Developed surgeon feedback application with PostgreSQL database, Streamlit dashboard, and adjusted rates calculations

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, with fine-tuned Llama3.1, image segmentation models, & 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)
- Validated patient comorbidity surveys to optimize hospital billing accuracy

Sema4

February 2020 to February 2021

Bioinformatics Intern Stamford, CT

- Engineered automated pipelines with Bash, Python, WDL, and AWS to detect structural variants in 100+ 100GB+ BAM files using GitHub tools (Delly, SvABA) and Illumina DRAGEN
- Identified repeat variants in 100+ samples, contrasting insulin vs non-insulin pancreatic neuroendocrine tumors (PNETs) for diabetes therapies and visualized results with Circos, stacked bar, heat map, and scatter plots

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

English

Mandarin Chinese

Hindi

Japanese

Spanish

Publications