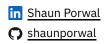
Shaun Porwal

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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: $\underline{1}$, $\underline{2}$, $\underline{3}$)

`no-more-sql` - https://github.com/juntotechnologies/no-more-sql

March 2024 - Present

Developed a fine-tuned Llama + RAG pipeline on an Nvidia GPU server using Streamlit, FAISS, and Llama 3.1:70B to provide secure text-to-SQL conversion for my organization, servicing 50+ Data Scientists

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 radiology pipeline, with fine-tuned Llama 3.1, image segmentation models, & dashboard
- Led statistical analyses for a landmark study on post-chemotherapy RPLND policies in testicular cancer, applying statistical methods (GAM, logistic regression, Kaplan-Meier, CoxPH, DCA) to inform surgeon decisions (coming soon)

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