# 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 Llama3.1:70B to provide secure text-to-SQL conversion for my organization; serviced 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-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**