Shaun Porwal

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in Shaun Porwal
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Open-Source Projects

`dcurves` Python Library - https://decisioncurveanalysis.org   **August 2021 - Present**

(GitHub Link, PyPI Link) over 29k downloads, evaluates binary and survival models; built and maintain instructional website + technical forum, answering advanced user questions (links: 1, 2, 3)

`no-more-sql` - https://github.com/juntotechnologies/no-more-sql - Temporarily Privated   **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, servicing 50+ Data Scientists

Experience

Memorial Sloan Kettering Cancer Center   **March 2021 to Present**

Machine Learning 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 tool with fine-tuned Llama 3.1:70B, trained SAM 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

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
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Publications

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