Sriram J. Hathwar

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Education

Princeton University, B.S.E. Operations Research, 3.7 GPA 2018 – June 2022

- Minors in Statistics + Machine Learning, Quantitative + Computational Biology
- Relevant coursework: Algorithms and Data Structures, Protein Folding, fMRI Decoding, Probability and Stochastic Systems, Analysis of Big Data, Statistical Genomics, Computational Biology, Drug Discovery, Organic Chemistry I and II, Biochemistry, Biophysics, Stochastic Optimization in the Life Sciences

Experience

Bioinformatics Research Assistant, WashU School of Medicine Summer 2021

- Train clustering algorithms and graphical neural networks on single-cell RNA-seq data from a human embryo to model germ layer formation
- Discovered potential heterogeneity in mesoderm formation, intend to deploy model for public use and confirm results experimentally

AI + Healthcare Course Lead Instructor, Inspirit AI 2020 – Present

- Teach high school students about applications of cutting edge AI techniques like graphical neural networks and transformers to healthcare
- Guide students through Jupyter notebook projects to develop various machine learning models using logistic regressions, neural networks, NLP

Computational Neuroscience Research Assistant, Seung Lab 2020 – 2021

- Develop model to understand spatial distribution of neurons in mice
- Perform data engineering tasks to clean data, develop statistical models to model neuronal interactions

Final Project Coordinator, QCB455: Computational Biology Fall 2020

- Led undergraduate team to analyze metabolites, proteins, transcripts, and lipids from blood samples of COVID-19 and non-COVID-19 patients
- Developed random forest machine learning model to predict patient COVID-19 status and severity based on large dataset of multi-omic biomarker data

Chief Executive Officer and Co-Founder, Angle Global 2019-2021

- Signed licensing contract to be exclusive distributor of English learning content with the Spelling Bee of China (5M participants)
- Earned $30,000 grant to work on company over summer 2020 through Ovo Fund and advanced to final interview stage of YCombinator

Honors

Learning Engineering Fellow

- Among top 20 of 200 applicants selected to pitch project ideas for leading researchers in educational data science
- Sponsored by Berkeley School of Education and Schmidt Futures

Published Author

- Co-wrote "Words from the Champs" to help students prepare for spelling bees

National Spelling Bee Champion

- Won Scripps National Spelling Bee in 2014 out of 11 million spellers

Skills

Python, R, SQL, Java, Scala, Git, HTML, CSS, Machine Learning, Photoshop