Gunjan Baid

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Education

University of California, Berkeley
M.S., Computer Science, Aug 2017–May 2018
Advisor: Anthony D. Joseph
Thesis: *An Attention-Based Model for Transcription Factor Binding Site Prediction*

University of California, Berkeley
B.A., Molecular and Cell Biology (Biochemistry concentration),
Computer Science (double major), Aug 2012–Dec 2016

Relevant Coursework († graduate)
Artificial Intelligence, Algorithms, Biophysical Chemistry, Computer Vision,†
Deep Reinforcement Learning,† Designing and Visualizing Neural Networks,†
Genetics, Machine Learning

Research

UC Berkeley EECS Department, RISELab
Graduate Student Researcher, May 2017–May 2018

Project: An attention-based approach for transcription factor binding site prediction using DNA sequence and epigenetic information. Supervised by Profs. Anthony D. Joseph and Joseph E. Gonzalez in the RISELab, Prof. Nir Yosef in the Center for Computational Biology, and Ashish Vaswani at Google Brain. *Master's Thesis.*

Project: T Cell Receptor Reconstruction Algorithm for Paired-End Single-Cell (TRAPeS). Used dynamic programming for reconstruction from short or long single-cell RNA sequencing reads. Supervised by Prof. Nir Yosef.

Work

Bay Labs
Deep Learning Engineering Intern, Jun 2018–Aug 2018
Developed deep learning models for interpretation of cardiac ultrasound images.

UC Berkeley Division of Data Sciences
Technical Lead, Jan 2017–Dec 2017
Maintained the JupyterHub infrastructure used by 1500+ students in data science courses. Provided consultation to faculty members from 10+ departments on technical best practices for the use of JupyterHub infrastructure in classrooms.

Salesforce
Software Engineering Intern, May 2016–Aug 2016

Added functionality to Transaction Security, a framework implemented in Java that intercepts real-time Salesforce events and performs actions based on security policies. Redesigned the architecture used for event processing.

Gilead Sciences
Software Engineering Intern, May 2015–Aug 2015
Created a web application that tracks team membership for clinical trials and provides access control for other computer systems.

Teaching

DS 8 Short Course Data Science Pedagogy for Faculty, TA, 2016–2017
CS88 Computational Structures in Data Science, Head TA, 2016.
CS61A Structure and Interpretation of Computer Programs, TA, 2015.

Talks

JupyterCon Undergraduate Data Science at UC Berkeley, 2017
JupyterDayPhilly Undergraduate Data Science at UC Berkeley, 2017
CS 88 Guest Lecture on Mutability, Nonlocal, Exceptions, 2016
CS 88 Guest Lecture on Sequences, Generators, 2016

Awards

UC Berkeley Outstanding Graduate Student Instructor Award, 2017
UC Berkeley Outstanding Undergraduate Teaching in Computer Science, 2016

Languages & Technologies

Python, C, Java
NumPy, SciPy, TensorFlow, Jupyter, Spark, Git, LaTeX