

Bharat Srikishan

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Education

Columbia University

M.S. Computer Science
Machine Learning Track

University of Illinois Urbana Champaign

B.S. Computer Science
Minor Biomedical Engineering

Graduate Courses

Machine Learning
Deep Learning
Deep Generative Models
Machine Learning for Healthcare
Computational Statistics
Bayesian Statistics
Bayesian Nonparametrics
Artificial Intelligence
Algorithms
Operating Systems

Skills

Languages

Python
C++
Julia
Java
Javascript
SQL

Libraries and Tools

Tensorflow
PyTorch
Numpy/Scipy
Pandas
AWS (EC2, S3)
Hadoop
HBase
Hive
Kafka
Docker
jQuery

Experience

Stevens Institute of Technology | Ph.D. Student

08/2019 - Present | Hoboken, NJ

- Conducting research in the Health and AI Lab advised by Professor Samantha Kleinberg

NYU School of Global Public Health | Research Assistant

2019 - Present | New York, NY

- Conducting research with Principal Investigator Andrea Deierlein

Columbia University | Graduate Research Assistant

12/2015 - 01/2019 | New York, NY

- Worked with Professors Noémie Elhadad, Adler Perotte M.D., and Rajesh Ranganath to implement a distributed variational inference algorithm for a massive, simultaneous survival problem
- Ran experiments on a dataset of 300k+ patients and submitted paper to NIPS ML4HC workshop: *Interpreting Comorbidity Groups via Risk Trajectories in the Health Record*. Bharat Srikishan, Rajesh Ranganath, and Noémie Elhadad. *NIPS 2017 ML4HC Workshop*.
- Conducted clinical abbreviation expansion research, model trained on 600k discharge summaries

Conductor | Lead Software Engineer

5/2009 - 8/2015 | New York, NY

- Worked as a back-end engineer and technical lead on a highly scalable search analytics platform
- Worked with my team to design and implement a collection, data processing, and ETL pipeline for Google/Adobe analytics reports using Hadoop, Hbase, Kafka, and Hive
- Built a data loading pipeline using Hive to load processed data from Hbase into MySQL
- Used Protocol Buffers to serialize and store collected entities in Hbase tables and HDFS
- Implemented and tested a data collector to collect backlinks data for over 100,000 client urls

Research and Papers

D. Feller, J. Zucker, O. Bear Don't Walk IV, B. Srikishan, R. Martinez, H. Evans, M. Yin, P. Gordon, N. Elhadad. Towards the Inference of Social and Behavioral Determinants of Sexual Health: Development of a Gold-Standard Corpus with Semi-Supervised Learning. *AMIA Annual Symposium Proceedings*. Vol. 2018.

B. Srikishan, R. Ranganath, and N. Elhadad. Interpreting Comorbidity Groups via Risk Trajectories in the Health Record. *NIPS 2017 ML4HC Workshop*.