Machine Learning for Good Postdoctoral Associate

The Machine Learning for Good (ML4G) Laboratory at New York University, directed by Professor Daniel B. Neill, is currently inviting applications for a two-year postdoctoral associate, to start in Summer or Fall 2019. The ML4G Lab is based at the Center for Urban Science and Progress, part of NYU's Tandon School of Engineering, and is also affiliated with the NYU Courant Department of Computer Science and the NYU Wagner School of Public Service. Our newly formed lab, building on Prof. Neill's previous ground-breaking work as director of the Event and Pattern Detection Laboratory at Carnegie Mellon University, will focus on the development of novel machine learning algorithms which can be directly applied for the public good, to enhance the quality of public health, safety, and security.

Description: We seek outstanding applicants with a strong record of interdisciplinary machine learning work, both methodological and applied. The ideal applicant would have a strong publication record in top-tier machine learning journals and conferences, as well as substantial experience both developing novel ML methods and translating them to real-world practice in areas that can substantially benefit the public good. Demonstrated experience and interest related to the lab's ongoing projects and focus areas would be highly beneficial. These include: methodological advances for pattern detection and prediction (e.g., subset scanning and scalable Gaussian processes); early event detection and situational awareness; causal inference; fairness and equity in algorithmic decision-making; and optimizing, deploying, and evaluating targeted interventions for good. Key application areas include public health and disease surveillance; crime prediction and prevention; opioid and overdose surveillance; fairness in criminal justice; allocation of city services; healthcare best practices; environmental health and prevention; and conflict and human rights. More information about current projects can be found on Prof. Neill's web page (http://cs.nyu.edu/~neill).

The posdoctoral associate position is a full-time, non-tenured position for two years, with annual appointments renewed based on satisfactory performance. The postdoctoral associate will be expected to develop and lead new ML4G research projects under Prof. Neill's supervision, collaborate on existing lab projects, participate in the development of funded research proposals, and assist Prof. Neill with advising ML4G Lab students. The salary is $72k/year with competitive benefits and a flexible start date.

NYU is committed to substantially increasing the proportion of our scholars from historically underrepresented groups as we strive to create the most intellectually diverse, inclusive, and equitable institution that we can, and thus we strongly encourage applications from candidates from historically underrepresented groups.

Qualifications: Doctoral degree in machine learning, computer science, or statistics (or a closely related field), with an active agenda of research and publication. Strong background in creating new machine learning methods (as opposed to applying existing off-the-shelf methods) combined with a passion for using machine learning to improve people's lives.

How to apply: Please submit your CV and a brief statement of research interests (no longer than 4 pages) to: http://apply.interfolio.com/59672. Applications received by February 28, 2019 will receive full consideration. Applicants should also arrange to have 3 recommendation letters submitted by this date. Any questions may be directed to Prof. Daniel B. Neill (daniel.neill@nyu.edu).