AI FOR SOCIAL GOOD
CSE 350-450 – Section 010 (3 credits)
Spring 2019 • 12:45 pm – 2:00 pm WF (tentative) • Building C (room TBD)
Professor Daniel Lopresti (dal9@lehigh.edu)

Course Description

AI is transforming society. At the same time, the high-tech industry has received criticism for focusing more on profits and ignoring societal impact. To counter this, an "AI for Social Good" movement has arisen within the field. In this project-based seminar course, we will begin by surveying recent work that falls under this theme. Students will then form teams to tackle a real-world problem, outlining the task, gathering the data, and implementing and testing solutions using state-of-the-art methods from machine learning, data/text mining and big data analytics. Among others, we will study applications from smart cities and open government data, as well as AI applied to the fight against human trafficking. This class will meet once a week in Mountaintop Building C, with individual team meetings scheduled at other times during the week.

Prerequisites: Permission of the instructor. The following courses or their equivalents serve as background: CSE 109 Systems Software and (CSE 326/426 or CSE 347/447 or CSE 398/498 Natural Language Processing or CSE 398/498 Text Mining).

Accommodations for Students with Disabilities

If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, Williams Hall, Suite 301 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Principles of Our Equitable Community

Lehigh University endorses The Principles of Our Equitable Community. We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.

Academic Integrity

CSE 350-450 is a team-based course, so students will collaborate. Still, some basic principles apply and plagiarism is never acceptable. Such cases will be referred to the University Committee on Discipline and, if you are found guilty, you may be given the failing grade WF in the course. If you have questions about this policy at any point, ask me. It is far better to be safe than sorry when your academic career may be on the line.