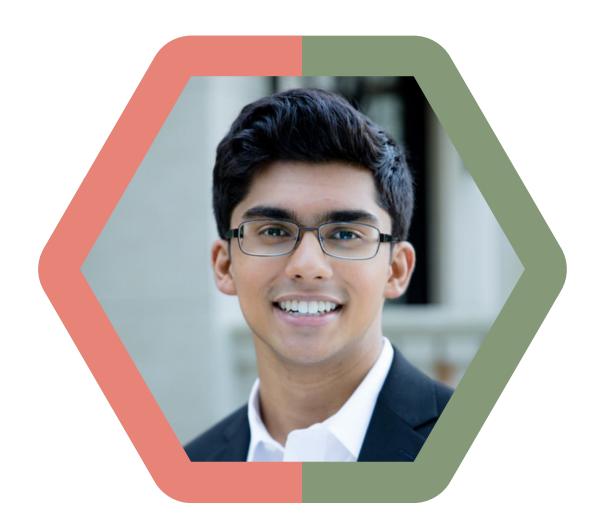## Syllabus

new frontiers of neurobiology and systems neuroscience

genetic engineering + applications to neurological disorders

novel therapeutics for treatments

ethical implications

Week 4: Neuroscience and Computing / AI

w/ Jay Iyer and Arvid Larsson

SynthEthics

About the instructor

Jay Iyer is a junior at Baton Rouge Magnet High School, in Baton Rouge, Louisiana. Iyer is the founder and CEO of his non-profit organization, MIND Relief, where he provides support to caregivers and family members of those suffering from neurodegenerative diseases. He is also a two-time International Science and Engineering Fair (ISEF) finalist, two-time National Science Bowl finalist, and a one-time National Science Olympiad finalist. In addition, he is a student researcher at Louisiana State University, and has extensive research experience in neurobiology, chemical biology, and microbiology. Iyer is also a Research Science Institute (RSI) Scholar, and a guitarist.

Jay Iyer

Microbiology,
Chemical biology

Ambassador - Louisiana, US

About the instructor

SynthEthics

Arvid has a background in applied physics, but right now he's about to finish his Masters's degree in Machine Learning. Last year he was tasked with leading the iGEM Team representing Lund University. His interests are, among many, AI/ML, synthetic biology, and ethics. He hopes SynthEthics will be a part of the movement towards a world where synthetic biology is used to solve some of the problems we're facing as a society.

Arvid Larsson

Applied Physics,
Machine Learning/AI

Guest Instructor - Sweden