Project in Deep Learning

(given under Project in Learning Systems - 236757)

Instructor: Ran El-Yaniv
TA: Yonatan Geifman

Prerequisite: One of the CS deep learning courses, 236606 or 236605, or the IE deep learning course 097200

Enrolment: is "manual". please send your request to deep.learning@cs.technion.ac.il<mailto:deep.learning@cs.technion.ac.il><mailto:deep.learning@cs.technion.ac.il<mailto:deep.learning@cs.technion.ac.il>> and adjoin it with your grades transcript and CV. Each request should be sent by a team of exactly **two students** who will perform the project together.

Enrolment due date: Please send your requests to register until February 20, 2019.

Number of openings is lmited. Among all requests we will select the most relevant pairs based on academic merits.

Description: the students will engage in mini-research projects conducted in pairs. Under the guidance of the instructor and TAs, and in conjunction with the students' skills and interests, each team will select a project from a list of projects that will be provided on the first meeting. Alternatively, projects can be suggested by the teams themselves or defined after a few brainstorming meetings with the course staff.

The goal of this course is to deepen the knowledge and understanding of specific topics in deep learning and increase students' proficiency in utilizing deep learning tools. The projects are designed to include research components including writing a project proposal, conducting a literature review, designing and defining benchmark tests, and writing a summary report.

Each team will conduct a bi-weekly meeting with the course staff. In these meetings the team will report on their progress and present the obstacles and problems encountered. Guided by the course staff, the team will plan their next steps and short term goals.

Evaluation: Projects should be completed by the end of August 2019. Evaluation will based on a scientific report that summarizes the project contextual background, decision choices, and results.