Welcome to CS182!

[Note: this syllabus is a live working document, so please check it regularly for the most updated information!]

Artificial Intelligence (AI) is already making a powerful impact on modern technology, and is expected to be even more transformative in the near future. The course introduces the ideas and techniques underlying this exciting field, with the goal of teaching students to identify effective representations and approaches for a wide variety of computational tasks. Topics covered in this course are broadly divided into search and planning, optimization and games, and uncertainty and learning. Special attention is given to ethical considerations in AI and to applications that benefit society. For a detailed list of topics see the course schedule.

Staff

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Course information

Lecture time and location: MW 12:45-2:00 at SEC 1.321

Prerequisites: Students must have previously taken Statistics 110 (Probability) or an equivalent course. Experience with Python programming and a good understanding of time complexity (including big O notation) are assumed.

Grading: Grades are based on five problem sets (10% each), attendance (10%), midterm exam (15%), and final exam (25%).

Textbook: Artificial Intelligence: A Modern Approach (4th ed.), by Russell and Norvig.

Ed Discussion is used for Q&A. Please join using the Ed tab on the Canvas navigation bar to the left.

Poll Everywhere is used for in-class polls and attendance. Please sign up using this link and your Harvard email.

Google Calendar of section and office hour times is linked here.

Homework policy: Assignments submitted past the deadline will incur the use of late days. You have a total of 5 late days, but cannot use more than 2 late days per homework. For solutions submitted more than 2 days after the due date, or those that have been submitted after all late days have been used, a standard late policy will go into effect which is 20% reduction in grade for work handed in within 24hrs of the due date (after application of late days, if applicable) and no credit for work handed in after that point.

Regrade requests must be submitted via Gradescope within 3 days from the time grades are released.

You can discuss the problems with your classmates, but you must write up your own solutions. You may not look up solutions online. If you use results from any source other than the material provided on the course website or the textbook, you must mention the source in your writeup.

Generative AI policy: TBD

Schedule

The tentative lecture and homework schedule is embedded below, and also available at this link.