

CSCI E-80

CS50's Introduction to
Artificial Intelligence
with Python

Harvard Extension School (<https://www.extension.harvard.edu/>)
Spring 2020

Announcements

This course explores the concepts and algorithms at the foundation of modern artificial intelligence, diving into the ideas that give rise to technologies like game-playing engines, handwriting recognition, and machine translation. Through hands-on projects, students gain exposure to the theory behind graph search algorithms, classification, optimization, reinforcement learning, and other topics in artificial intelligence and machine learning as they incorporate them into their own Python programs. By course's end, students emerge with experience in libraries for machine learning as well as knowledge of artificial intelligence principles that enable them to design intelligent systems of their own.

Table of Contents

1. Watch [Lecture 0](#) on or after Mon 1/27.
2. Complete [Quiz 0](#) on or before Mon, Feb 3, 2020 5:59 AM CET.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 0](#), due Mon, Feb 10, 2020 5:59 AM CET.

Knowledge

1. Watch [Lecture 1](#) on or after Mon 2/10.
2. Complete [Quiz 1](#) on or before Mon, Feb 17, 2020 5:59 AM CET.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 1](#), due Mon, Feb 24, 2020 5:59 AM CET.

Uncertainty

1. Watch [Lecture 2](#) on or after Mon 2/24.
2. Complete [Quiz 2](#) on or before Mon, Mar 2, 2020 5:59 AM CET.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 2](#), due Mon, Mar 9, 2020 4:59 AM CET.

Optimization

1. Watch [Lecture 3](#) on or after Mon 3/9.
2. Complete [Quiz 3](#) on or before Mon, Mar 16, 2020 4:59 AM CET.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 3](#), due Mon, Mar 23, 2020 4:59 AM CET.

Learning

1. Watch [Lecture 4](#) on or after Mon 3/23.
2. Complete [Quiz 4](#) on or before Mon, Mar 30, 2020 5:59 AM CEST.

3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 4](#), due Mon, Apr 6, 2020 5:59 AM CEST.

Neural Networks

1. Watch [Lecture 5](#) on or after Mon 4/6.
2. Complete [Quiz 5](#) on or before Mon, Apr 13, 2020 5:59 AM CEST.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 5](#), due Mon, Apr 20, 2020 5:59 AM CEST.

Language

1. Watch [Lecture 6](#) on or after Mon 4/20.
2. Complete [Quiz 6](#) on or before Mon, Apr 27, 2020 5:59 AM CEST.
3. Attend [section](#).
4. Optionally attend [office hours](#).
5. Work on [Project 6](#), due Mon, May 4, 2020 5:59 AM CEST.