



How to Learn: Humans vs. Computers

The Jubilee Institute, January 2023



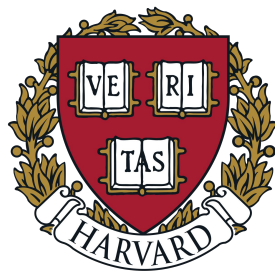
Introduction

- **Name:** Navpreet Singh → Nav
- **School:** Massachusetts Institute of Technology (MIT) in Cambridge, MA
- **Major:** Artificial Intelligence and Decision Making (MIT Course 6-4)
- **Hometown:** New York City, New York
- **Hobbies:** Traveling, Racing, Chess, Baseball, American Football, Jazz



University in the US

- Most people in the US start their first year of university at age 18-19.
- A Bachelor's degree is a 4 year program, after which you graduate.
- Most colleges are private colleges, and most of their funding comes from endowments (donations).
 - MIT, Harvard, Yale, Princeton, Stanford, ...
- Some colleges are public colleges, and receive most of their funding from the government.
 - Georgia Tech, UCLA, UC Berkeley, University of Michigan, ...



University Admissions

- Most American universities use a holistic admissions process, looking at various aspects of you as a student.
 - **Scores**, such as your SAT/ACT, IB/AP, school grades on your transcript, and sometimes TOEFL/IELTS (depends on school).
 - **Essays**, including your main admissions essay, along with supplemental (additional) essays, with prompts unique to each school.
 - **Extracurricular activities**, such as academic/sports teams, clubs, jobs/internships, and research experience.
 - **Recommendations**, from your teachers and/or mentors.
 - **Background**, such as your socioeconomic status and cultural heritage.

SAT/ACT Preparation

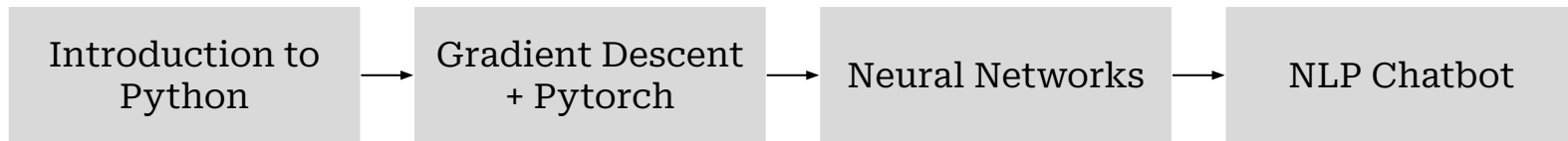
- Most students take their SAT/ACT in their second to last year before university.
- Khan Academy has a free SAT preparation course which is very helpful to study for the exam ([Link](#)).
- The College Board has also released SAT practice tests, which are very helpful in determining your progress ([Link](#)).
- SAT YouTube courses: [Hayden Rhodea](#), [The Organic Chemistry Tutor](#), [Brilliant Prep Reading](#), [Brilliant Prep Writing](#)
- ACT Sample Test Questions: [Math](#), [English](#), [Reading](#), [Writing](#), [Science](#)
- ACT YouTube courses: [here](#).



Questions?

Course Preview

- The goal of this course is to introduce the different ways humans and computers learn.
- In my lessons, you guys will be introduced to concepts in Artificial Intelligence (AI) and Machine Learning, such as Gradient Descent, Neural Networks, and Natural Language Processing (NLP).
- By the end of this course, you guys will have been exposed to these concepts and be given pathways to learn more on your own in the future.





Introduction to Python



<https://tinyurl.com/JubileeGit>