

Gallatin Undergraduate Rationale: The creation of Artificial Intelligence

Abhi Agarwal

What is AI? How is it Potrayed & developed of AI in books, media, and research?
Artificial Intelligence has been a hotly debated topic in the last decade, and even more debated in the media in the last couple years.

What is intelligence? How do we define it?

Intelligence testing & factors of intelligence for intelligent machines

Conscience, desire, rationality, intuition, common sense, and their relation to intelligence

Methods of quantification for a thinking or intelligence machines

Superintelligence vs intelligence

Embedding of AI into our social structure

Impacts of the creation

Booklist

Ancient, Medieval and Renaissance Classics

At least seven works produced before the mid-1600s.

- Sidereus Nuncius – Galileo Galilei
- The Discourse on Method – Rene Descartes
- The Republic – Plato
- Bhagavad Gita – Sage Vyasa
- Utopia – Thomas More

Modernity—The Humanities

At least four works, produced after the mid-1600s, in Humanities disciplines such as Literature, Philosophy, History, the Arts, Critical Theory and Religion.

- Treatise of Human Nature – David Hume
- Godel, Escher, Bach – Douglas R. Hofstadter
- Superintelligence: Paths, Dangers, and Strategies – Nick Bostrom

Modernity—The Social and Natural Sciences

At least four nonfiction works, produced after the mid-1600s, in the Natural Sciences and Social Science disciplines such as Political Science, Economics, Psychology, Anthropology, and Sociology.

- An Enquiry of Human Understanding – David Hume
- On the Origins of Species – Charles Darwin
- The Descent of Man – Charles Darwin
- On Natural Selection – Charles Darwin
- Computing Machinery and Intelligence – A. M. Turing
- Hackers – Steven Levy
- The Bell Curve – Richard J. Herrnstein and Charles Murray

Area of Concentration

At least five additional works representing the student's area or areas of concentration; students whose area of concentration already appears among the above categories may simply choose five additional works from these categories.

- The Human Brain – Susan Greenfield
- On Intelligence – Jeff Hawkins
- Artificial Intelligence: A Modern Approach – Stuart Russell and Peter Norvig
- The Big Test: The Secret History of the American Meritocracy – Nicholas Lemann
- Dataclysm: Who We Are – Christian Rudder
- The Singularity Is Near – Ray Kurzweil
- Darwin's Devices – John Long

Optional influences

These are books I have not fully read or embedded into my rationale, but I have used parts of these books to influence my arguments.

- The Structure of Scientific Revolutions – Thomas S. Kuhn
- Flatland: A romance of many dimensions – Edwin A. Abbott
- I am a strange loop – Douglas R. Hofstadter