

Why Invest in AI?

Discussing Entrepreneurship in AI

Andrew Lim

TALK Youth Leadership Internship Presentation 2018





About Me

- Rising Sophomore at Thomas Jefferson High School for Science and Technology
- 15 years old
- Hobbies include programming, rowing, gaming, racquetball, and math
- Interested in AI, cybersecurity, investing



Agenda

1. What Is AI?
2. Applications of AI
3. Entrepreneurship and Investing in AI
4. TALK Youth Visit to JHU Tech Ventures Start Up
5. Conclusion and Questions



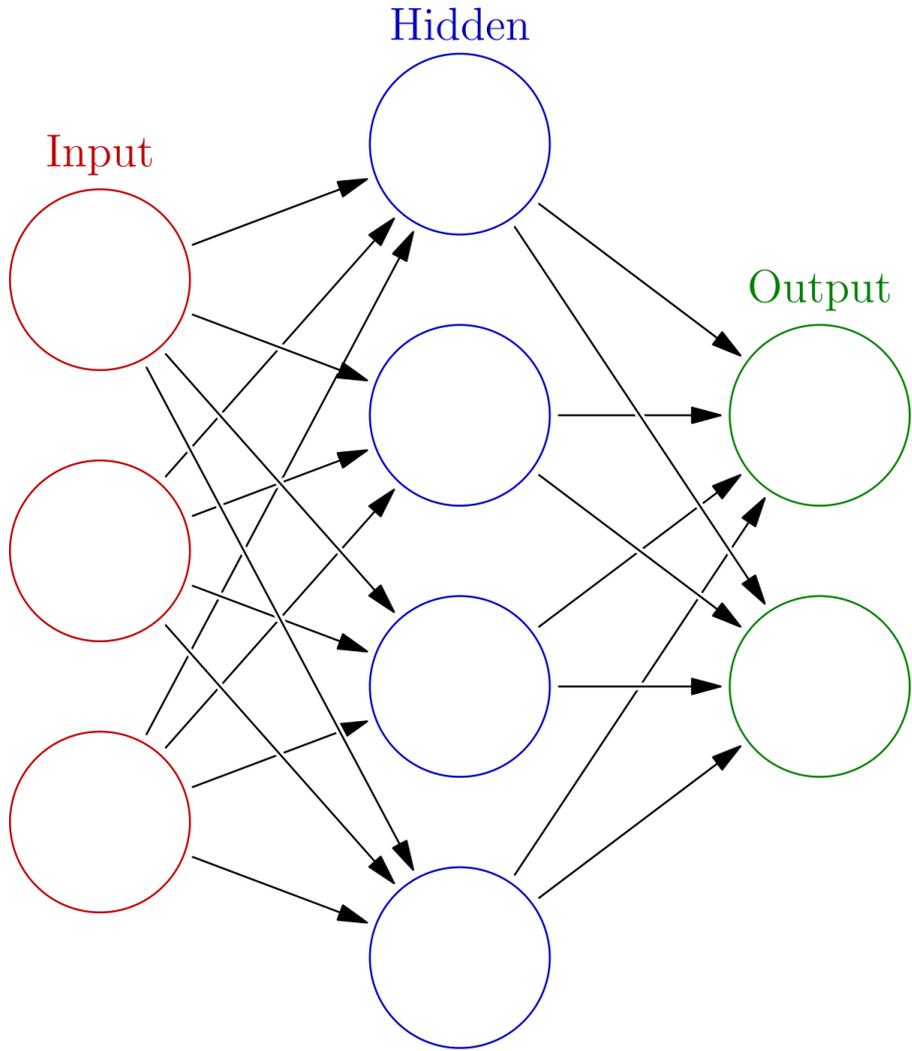
What Is AI?



Artificial intelligence refers to the ability to think and solve problems displayed by machines, rather than an intelligent living being.

Utilizes a **neural network**, a system designed to emulate a human mind which grows via **machine learning**. The neural network is how the system solves problems.

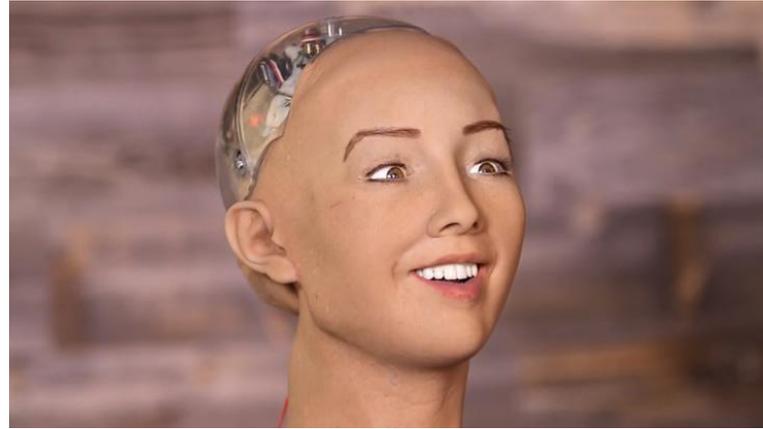






Examples

- IBM's Watson
- Google's DeepMind
- Amazon's Alexa
- Sophia (First Robot Citizen)





Medicine Application

RIBA (Robot for Interactive Body Assistance) is a robotic nurse designed to carry patients from bed to a wheelchair. While this robot was created in 2009, the concept of a robotic nurse is still revolutionary to this day.





Cybersecurity Application



chronicle

Google's cybersecurity branch Chronicle claims that AI will be crucial to the development of combating cybercrime, and are developing an AI that is able to detect and learn patterns faster and more efficient than humans to protect databases.





Entrepreneurship Summary

- Taking unorthodox risks to advertise a startup or product
- Appeal to investors
- Profit and develop solid foundation for product





Statistics

- **In 2018, \$2.2 billion has been spent on AI, expected to be \$7.3 billion by 2022.**
 - The number of enterprises utilizing AI is currently at 15% in 2018, but is expected to increase to 31% in 2019.
 - Since 2000, investment into AI startups has increased 500%.
 - Robot imports increased 150% from 2000 to 2015.

TALK Youth Visit: Technology Ventures, JHU (August 2, 2018)

- Johns Hopkins Technology Ventures offers many different laboratory spaces for startups of all fields
- Startups are approved through a rigorous process, about 2% of products are approved for funding
- 1812 Ventures invested in three products, including a robotic stethoscope



JOHNS HOPKINS
TECHNOLOGY VENTURES





Why Invest in AI?

- Having many applications makes AI a versatile field.
 - Therefore, many innovative concepts and ideas can be formulated and provides investors with a wide array of options to invest in.
- With the rapid growth and development of AI, the field has very high potential of being very lucrative.
- AI can run data and perform tasks more efficiently, faster, and more precisely than humans.
- **AI is crucial to the development of the future world, and will benefit humans greatly.**



Citations

<https://towardsdatascience.com/15-artificial-intelligence-ai-stats-you-need-to-know-in-2018-b6c5eac958e5>

<http://news.mit.edu/2017/explained-neural-networks-deep-learning-0414>

RIBA was created by the company RIKEN.

Sophia was created by Hansen Robotics.

https://www.youtube.com/watch?v=FeUzwJ-_NdU

<https://ventures.jhu.edu/>

<https://chronicle.security/>



Questions?