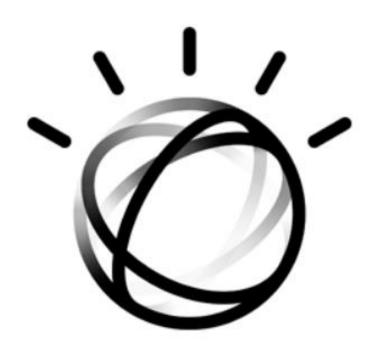
I SPY AI A JEOPARDY GAME ON ARTIFICIAL INTELLIGENCE



MS. DEE

@DEEPSTEM

DEEPSTEM.WORDPRESS.COM

July 30, 2020 SWENext PittsburghVirtual Event

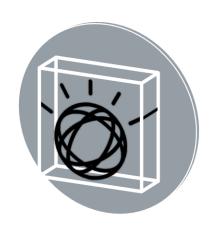
ABOUT ME



COMPUTER ENGINEER







Al

Mary Zeis
Chat Coordinator
VP Outreach, Society
of Women Engineers

Shriya K.

Audio Engineer and
Support Coordinator
Rising 9th Grader

Rishi K.
Scorekeeper and
Support Coordinator
Rising 4th Grader

ZOOM ETIQUETTE



KEEP YOUR VIDEO ON – WE NEED TO SEE YOU!



STAY MUTED UNTIL YOU NEED TO TALK

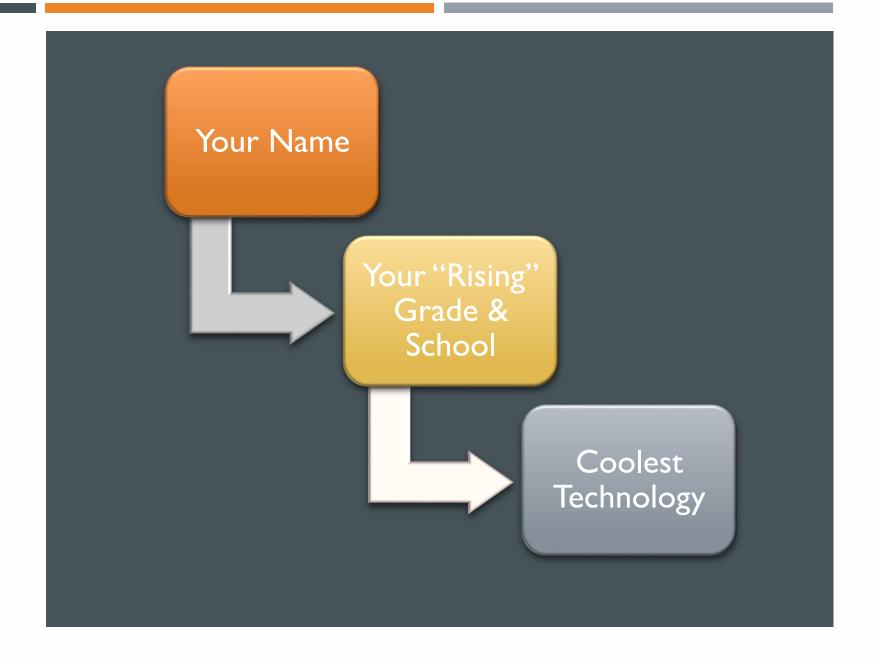


USE "RAISE HANDS" TO ASK A QUESTION



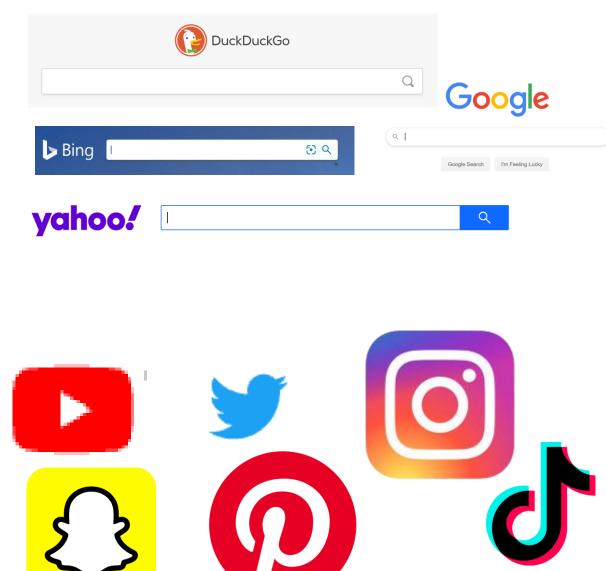
WEWILL RENAME YOU
ON ZOOM WHEN WE
BREAK OUT INTO TEAMS

LET'S GET TO KNOW EACH OTHER!

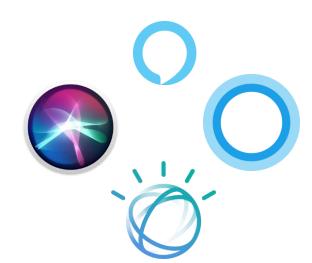


WHAT IS ARTIFICIAL INTELLIGENCE?





u





A SIMPLIFIED VIEW OF AITASKS

Dataset

Learning Algorithm

Prediction



OF DATA

DATASET: COLLECTION





















































Cat, cat litter, litterbox, poo icon





























thesecatsdonotexist.com





facebook.com





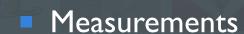




avatars.alphacoders.com

this cat of this cat of

nightma



- Text
- **I**mages
- Audio Clips
- Videos







thesecatsdonotexist.com

Hello Kitty Is Officially Not A ...



Cats & Kittens Wallpapers - C... appannie.com

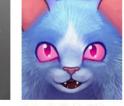


2048 Feline Cats - Home | Fa... facebook.com



reddit.com

Cats-in-Residence (@catsinre...



Avatars for The Isle of Cats - ... thecityofkings.com



ts Do Not Exist



These Cats Do Not Exist



June is Adopt a Cat Month frontieranimalsociety.com



Cat Vet in Boulder, CO | Uniqu ... uniquelycats.com

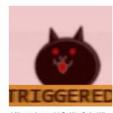




Cat Music: Relaxing Music For.. music.amazon.com



ngs and Gif Zamis & Sa...



killer cats cost | Battle Cats Wi... battle-cats.fandom.com



Savvy Paws Savannah Cats - ...



These Cats Do Not Exist thesecatsdonotexist.com



Cat Stamp! Cute Stickers of C ...



require more time to be taken .













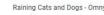


Related searches

this cat does not exist meme> this human does not exist this person does not exist



Hartz Just for Cats Cat Toy, Mi...

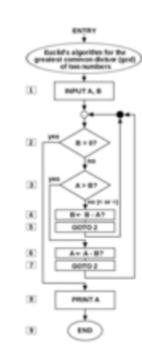


LEARNING ALGORITHM: WHAT IS AN ALGORITHM?

Algorithm

In mathematics and computer science, an algorithm is a finite sequence of well-defined, computer-implementable instructions, typically to solve a class of problems or to perform a computation.

Algorithms are always unambiguous and are used as specifications for performing calculations, data processing, automated reasoning, and other tasks. Wikipedia

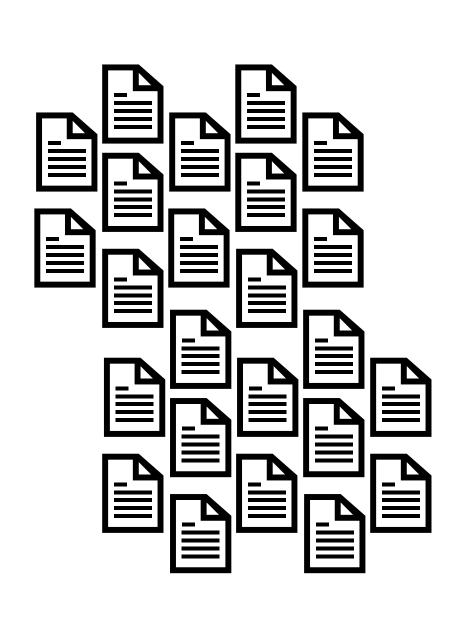


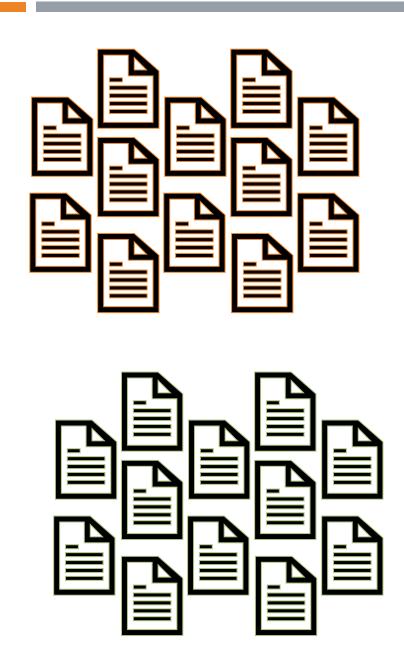
MACHINE LEARNING

LEARNING
HOW TO
PERFORM A
TASK FROM A
COLLECTION
OF EXAMPLES









ANATOMY OF A LEARNING ALGORITHM



EXAMPLE OF A LEARNING ALGORITHM Input Steps to change Input Input

Task: How do you add a new contact to your phone?



Output

EXAMPLE OF AN AITASK



Task: How does your keyboard Autocomplete words?

Similar word associations What you have typed

before

Learning Algorithm

What is the next word you will type?

EXAMPLE OF AN AITASK



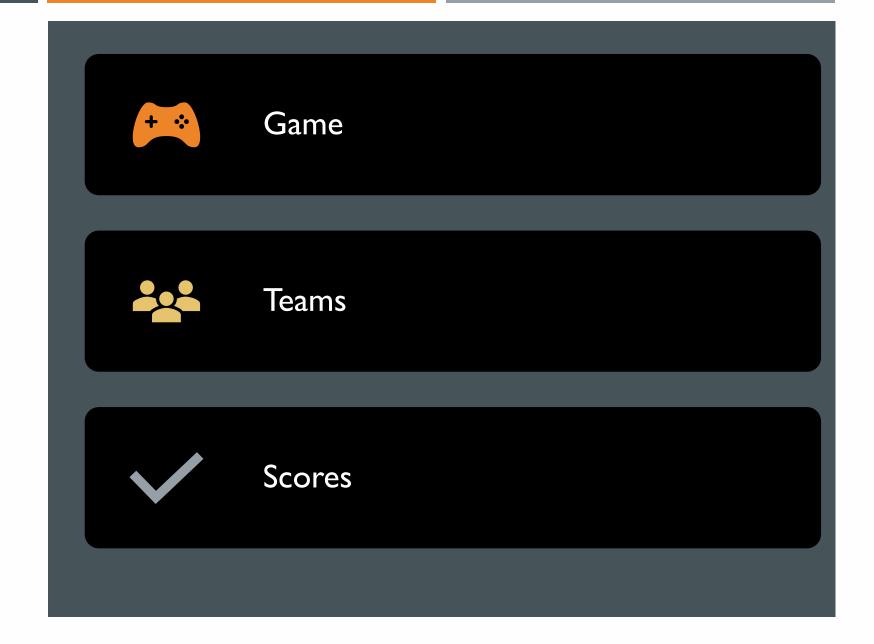
Task: How do you personalize ads on Instagram?

Past Clicks
Brands you follow
Text in captions
Behavior of people like you

Learning Algorithm

What ad will you click on?

WHO HAS PLAYED JEOPARDY?





- Each question describes a prediction and a dataset. The team needs to guess the Al task
- The team earns points if they answer correctly
- The turn passes to the next team for the next question
- The team with most points at the end of the game wins
 - Are you ready to SPY AI?

LET'S PLAY JEOPARDY!

Web	Арр	Email	Image	Music & Travel	Any
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$600</u>	<u>\$600</u>	<u>\$600</u>	<u>\$600</u>	<u>\$600</u>	<u>\$600</u>
<u>\$800</u>	<u>\$800</u>	<u>\$800</u>	<u>\$800</u>	<u>\$800</u>	<u>\$800</u>
<u>\$1000</u>	<u>\$1000</u>	<u>\$1000</u>	<u>\$1000</u>	<u>\$1000</u>	<u>\$1000</u>

SEARCH THE INTERNET (GOOGLE)



Past searches and links you have clicked

PREDICTION

What personalized search results you will see



SEARCH FOR A PRODUCT (AMAZON)



Examples of product names and characteristics

PREDICTION

Which product you wanted to find



RECEIVE PRODUCT RECOMMENDATIONS (AMAZON)

DATASET

Products that people have bought together in the past

PREDICTION

What product might go well with what you are buying



USE SAFE SEARCH ON SEARCH ENGINES (BING)



Examples of websites that are safe and unsafe



Whether the site you are clicking on is safe



USE PREDICTIVE SEARCH ON SEARCH ENGINES (GOOGLE)

DATASET

Past searches of people who share your interests

PREDICTION

What you intended to search after the first words



AUTOCORRECT SPELLING WHILE TYPING (WORD)

DATASET

Examples of how people misspell words

PREDICTION

What is the word you are trying to type



GET MOVIE RECOMMENDATIONS (NETFLIX)

DATASET

Past movies that you have watched completely

PREDICTION

Which movies you may like next



RECOMMEND SIMILAR BOOKS (GOODREADS)



Books and Genres that you may have read in the past



What books may interest you next





GET A WEATHER FORECAST (WEATHER APP)



Past (historical) weather data



What is the weather in the future



MAKE MOBILE DEPOSITS BY SCANNING CHECKS (PNC BANK)

DATASET

Examples of handwriting on checks

PREDICTION

What is written on the check



FILTER EMAIL SPAM MESSAGES (GMAIL)

DATASET

Examples of emails that are spam and not

PREDICTION

Whether a new email is spam



MARK SOME EMAILS AS IMPORTANT (GMAIL)

DATASET

Examples of whether emails are important or not

PREDICTION

Whether a new email is important



GET NEWS ARTICLE RECOMMENDATIONS (APPLE NEWS)

DATASET

News articles that you have read in the past

PREDICTION

What news article may interest you next



CLASSIFY EMAILS (GMAIL)

DATASET

Examples of emails that are social or promotional

PREDICTION

Whether a new email is social or promotional



USE SMART REPLY ON EMAIL (GMAIL)

DATASET

Past responses for email messages

PREDICTION

What response you might want to send



IMAGE: 200

CLICK A SHOPPING AD (INSTAGRAM)

DATASET

Examples of what people bought based on the instagram accounts they follow

PREDICTION

What you might buy based on what you follow



RECOMMEND SIMILAR PINS (PINTEREST)



Past items you have pinned

PREDICTION

Which items you may like next



TAG FACES OF PEOPLE (PHOTOS)

DATASET

Images of people's faces

PREDICTION

Whose face is in the image



USE A SNAPCHAT FILTER (SNAPCHAT)

DATASET

Examples of people's faces

PREDICTION

Where do you want to paste glasses on the face



MAKE ANIMATED MEMOJIS (APPLE)

DATASET

Images of your face and expressions on your face

PREDICTION

What the memoji should reflect



RECOMMEND SIMILAR MUSIC (SPOTIFY)

DATASET

Past songs that you have listened to

PREDICTION

What songs may interest you next



PREDICT ESTIMATED ARRIVAL TIME (MAPS)

DATASET

Past (historical) samples of time to reach the destination across routes and traffic situations

PREDICTION

When will you reach a destination



IDENTIFY POPULAR SONG (SHAZAM)

DATASET

Examples of song snippets in noisy environments

PREDICTION

What song you are listening to



AVOID TRAFFIC (WAZE)

DATASET

Traffic patterns during different times across different routes

PREDICTION

Which route has the shortest time to travel



FIND A RIDESHARE (UBER)

DATASET

Drivers in the area who are available

PREDICTION

Which driver to connect to you



AUTOCOMPLETE TYPING (SMART KEYBOARDS)

DATASET

Examples of words or letters that are typed together



What you will type next



TRANSCRIBE VOICE TO TEXT (SMS APP)



Transcribed audio messages from people

PREDICTION

What is the text message of what you said



UNLOCK DEVICE USING FACIAL RECOGNITION (APPLE)



Images of your face

PREDICTION

Whether the face is yours



UNLOCK DEVICE USING YOUR FINGERPRINT (APPLE)

DATASET

Different impressions of your fingerprint

PREDICTION

Whether the fingerprint is yours



REPLACE WORDS LIKE "LOL" WITH AN EMOJI (SMART KEYBOARDS)

DATASET

Potential meanings of each emoji

PREDICTION

What is the best emoji to replace your text



Can you recognize AI in action around you?

Did you learn something new?

Will you come back?

QUICK SURVEY: https://forms.gle/AVPQ6HTjUhYM9VjJA