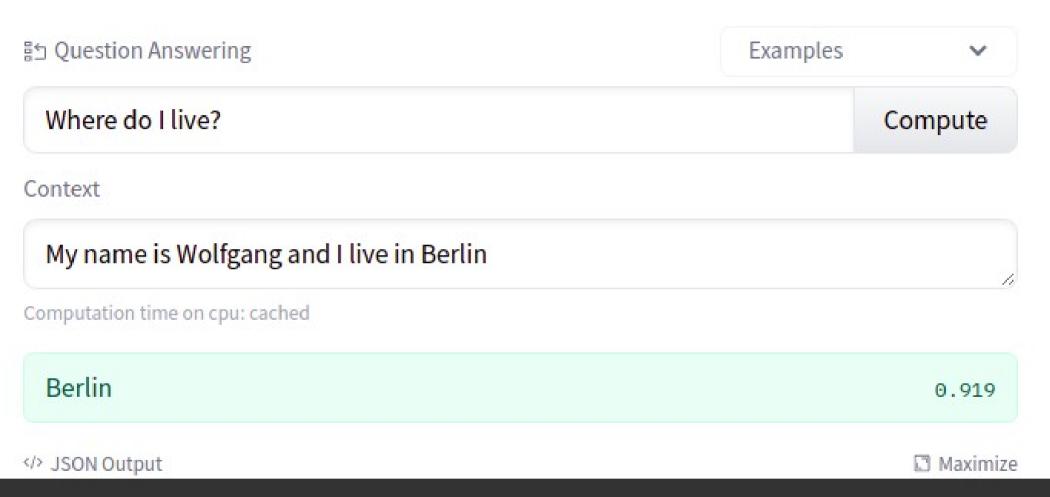
CMPE 353 AI

Last words...

AI TASKS





Examples

~

The tower is 324 metres (1,063 ft) tall, about the same height as an 81-storey building, and the tallest structure in Paris. Its base is square, measuring 125 metres (410 ft) on each side. During its construction, the Eiffel Tower surpassed the Washington Monument to become the tallest man-made structure in the world, a title it held for 41 years until the Chrysler Building in New York City was finished in 1930. It was the first structure to reach a height of 300 metres. Due to the addition of a broadcasting aerial at the top of the tower in 1957, it is now taller than the Chrysler Building by 5.2 metres (17 ft). Excluding transmitters, the Eiffel Tower is the second tallest free-standing structure in France after the Millau Viaduct.

Compute

Computation time on cpu: cached

The tower is 324 metres (1,063 ft) tall, about the same height as an 81-storey building. Its base is square, measuring 125 metres (410 ft) on each side. During its construction, the Eiffel Tower surpassed the Washington Monument to become the

tallest man-made structure in the world

Summarization



Examples



How many stars does the transformers repository have?

Compute

Computation time on cpu: cached

1 match: 36542

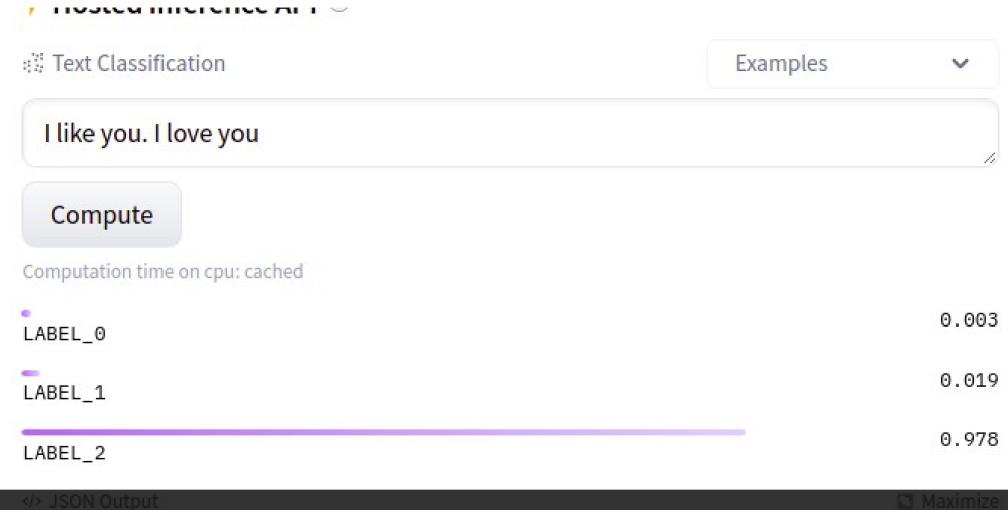
AVERAGE

| Tillatell. 33312 | | | 717211102 |
|------------------|-------|--------------|-------------------------|
| Repository | Stars | Contributors | Programming language |
| Transformers | 36542 | 651 | Python |
| Datasets | 4512 | 77 | Python |
| Tokenizers | 3934 | 34 | Rust, Python and NodeJS |

= Add row

II Add col

Roset table



Examples



Once upon a time, the course CMPE 353 Artificial Intelligence



Compute

Computation time on cpu: 0.78 s

Once upon a time, the course CMPE 353 Artificial Intelligence and 3D mapping were both successful enough to move up the ranking to the top of the list of 100 highest-paid computer scientists.

⟨> JSON Output
☑ Maximize

Text Generation



₽ Text2Text Generation

I like to watch movies in the theatre



Compute

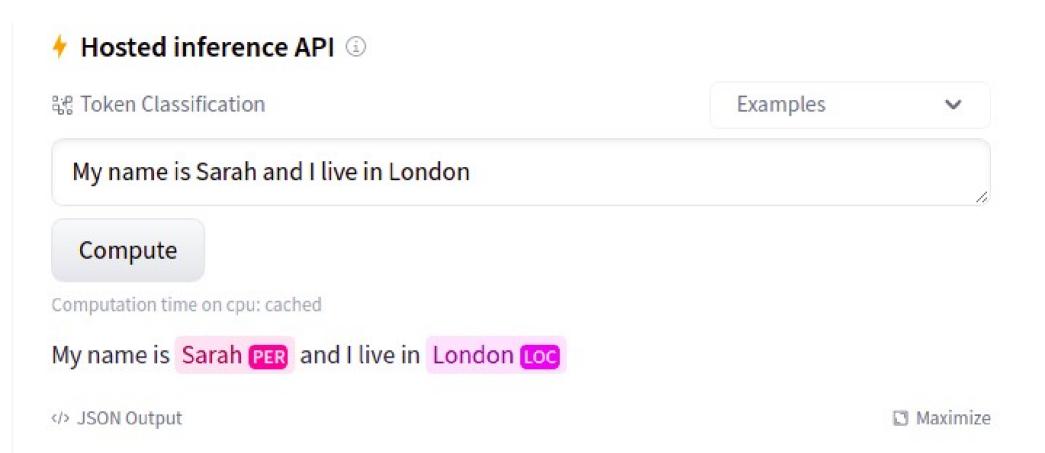
Computation time on cpu: 2.796 s

I enjoy watching movies in the theatre.

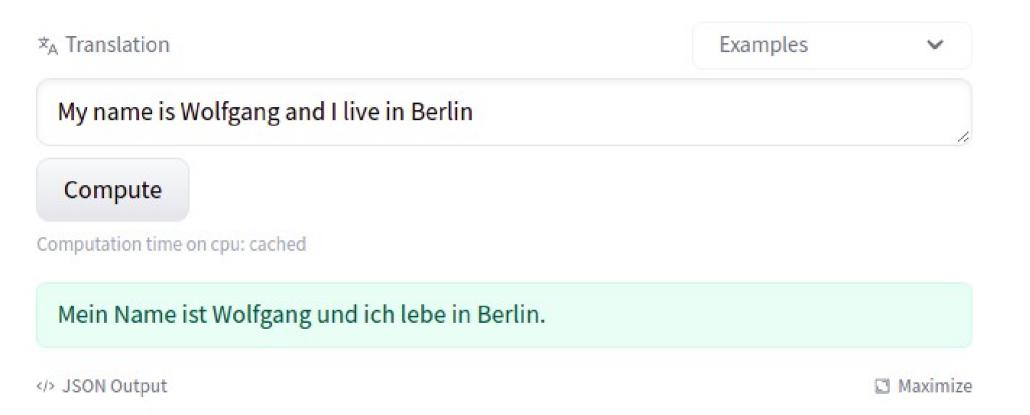
</>
/> JSON Output



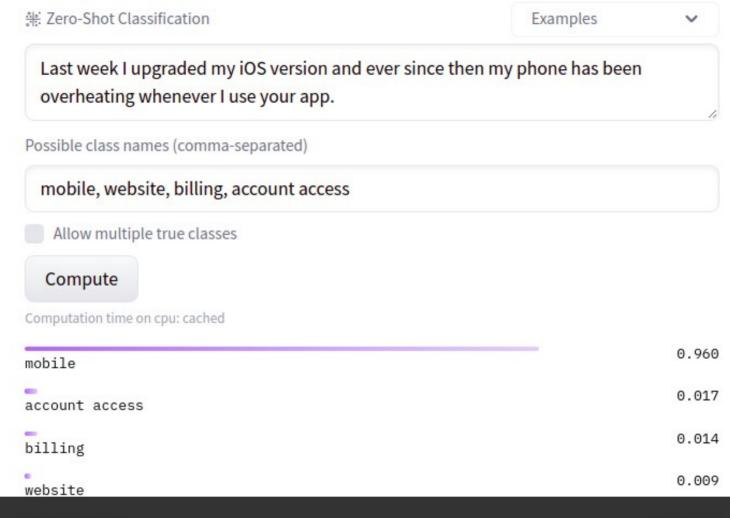
Rephrasing



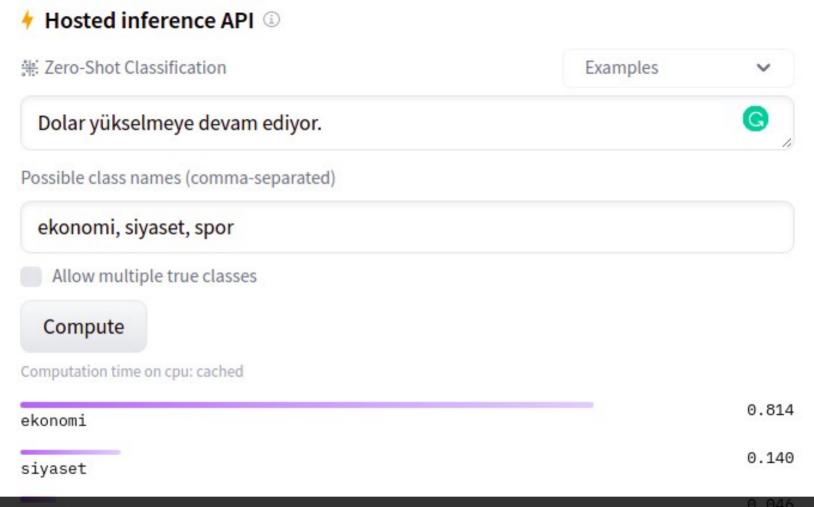
Token CLS./ Sequence Labeling



Machine Translation



Zero Shot Learning



Zero Shot Learning Turkish

Hosted inference API ①

₽ Text2Text Generation

Examples



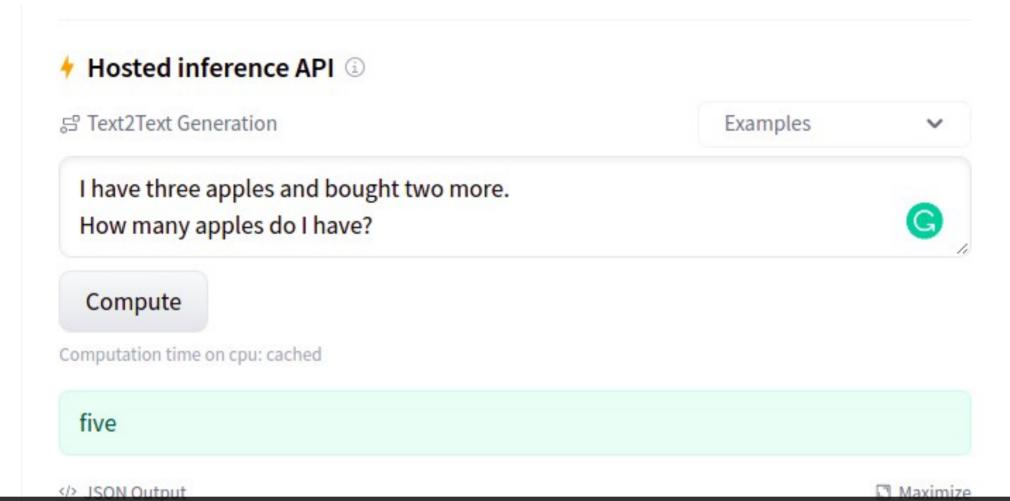
The two men running to become New York City's next mayor will face off in their first debate Wednesday night. Democrat Eric Adams, the Brooklyn Borough president and a former New York City police captain, is widely expected to win the Nov. 2 election against Republican Curtis Sliwa, the founder of the 1970s-era Guardian Angels anti-crime patril. Who are the men running for mayor?

Compute

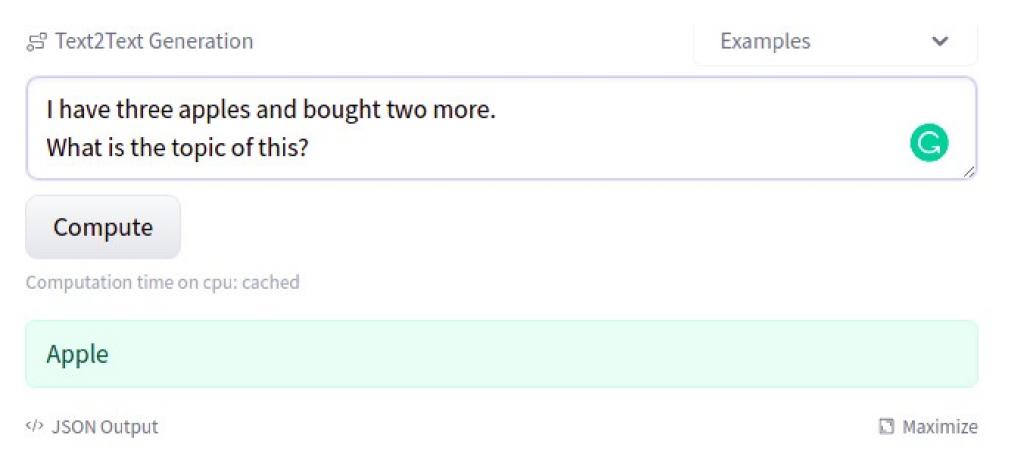
Computation time on cpu: cached

Eric Adams and Curtis Sliwa





T0 Model



Zero Shot T0

I have three apples and bought two more.

Please Summarize it!



Compute

Computation time on cpu: cached

I have five apples and bought two more.

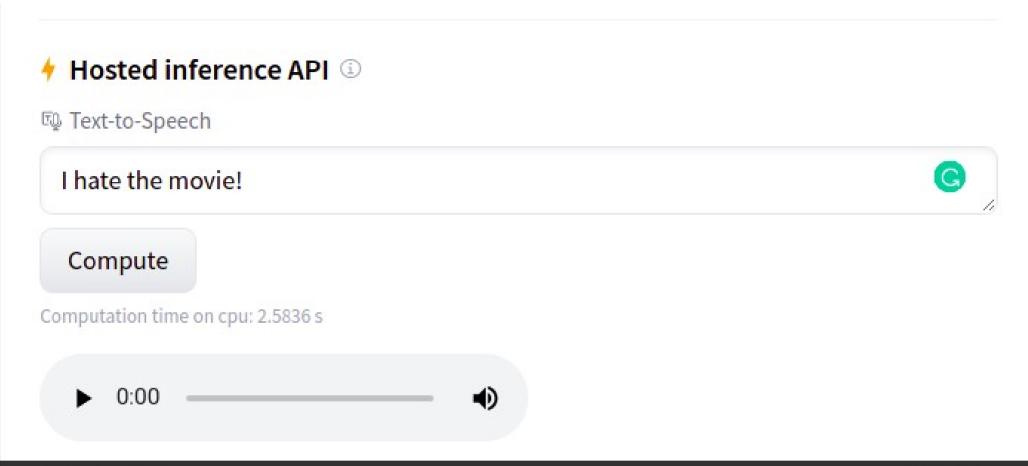
ISON Output



Zero Shot T0 Summarization

Source Sentence <O>How many models can I host on HuggingFace? Sentences to compare to <A>All plans come with unlimited private models and datasets. <A>AutoNLP is an automatic way to train and deploy state-of-the-art NLP models, see <A>Based on how much training data and model variants are created, we send you a <A> What is the number of model I can upload on HF? Your sentence here... Add Sentence Compute Computation time on cpu: 0.198 s 0.565 <A>All plans come with unlimited private models and datasets. 0.473 <A>AutoNLP is an automatic way to train and deploy state-of-the-art NLP models, seamlessly integrated with the Hugging Face ecosystem. 0.514

Sentence Similarity





Computation time on cpu: 0.1668 s

ox

oxcart

water buffalo, water ox, Asiatic buffalo, Bubalus bubalis

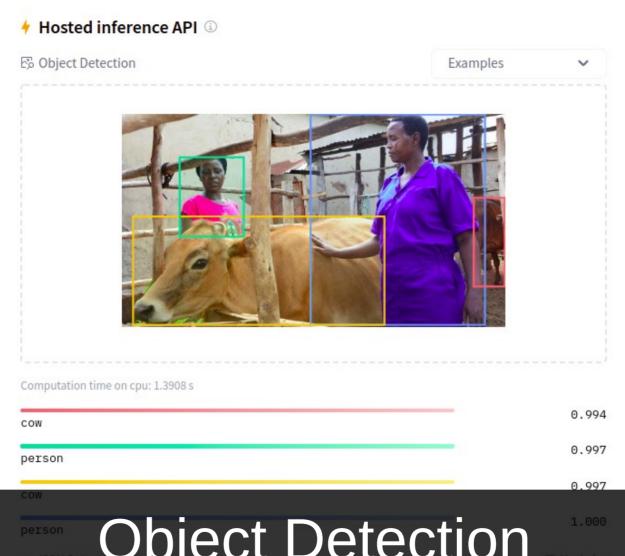
plow, plough

0.516

0.476

0.002

Image Classification



Object Detection

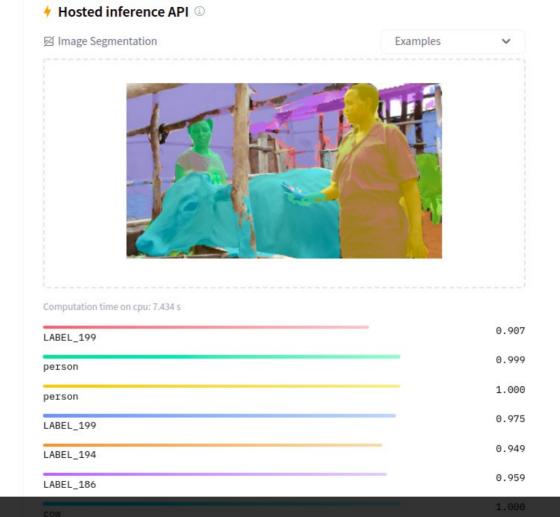


Image Segmentation

DALL-E mini

Generate images from text

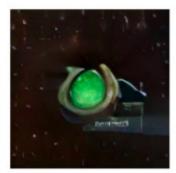
What do you want to see?

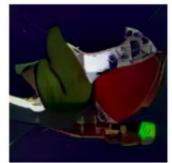
an avocado armchair flying into space

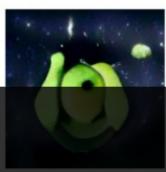
an avocado armchair flying into space















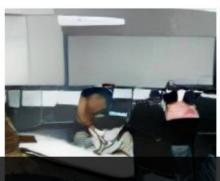


what do you want to see?

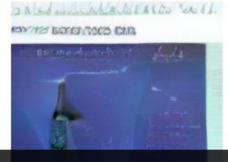
I teach AI Course Today

I teach AI Course Today













Text To Image



A person is walking along a beach with a big dog



A black and white dog carries a tennis ball in its mouth



A soccer player takes a soccer ball in the grass



A man is doing a trick on a snowboard



A surfer dives into the ocean

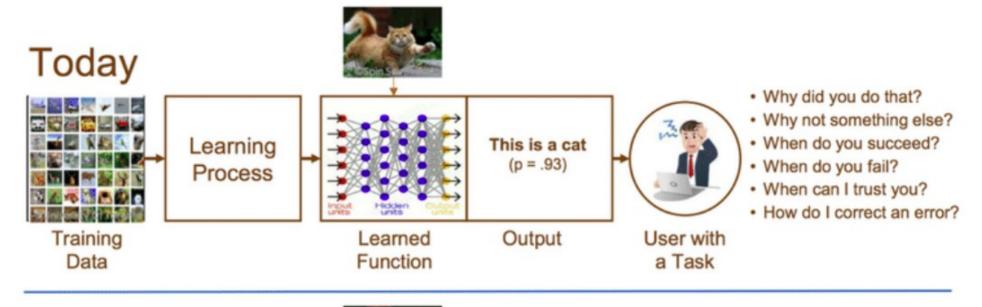


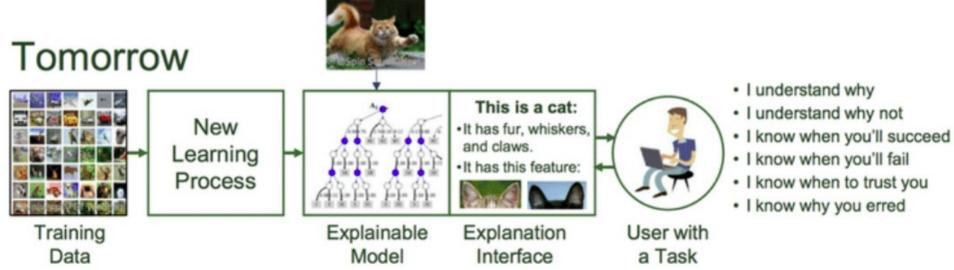
A black and white dog leaps to catch a Frisbee

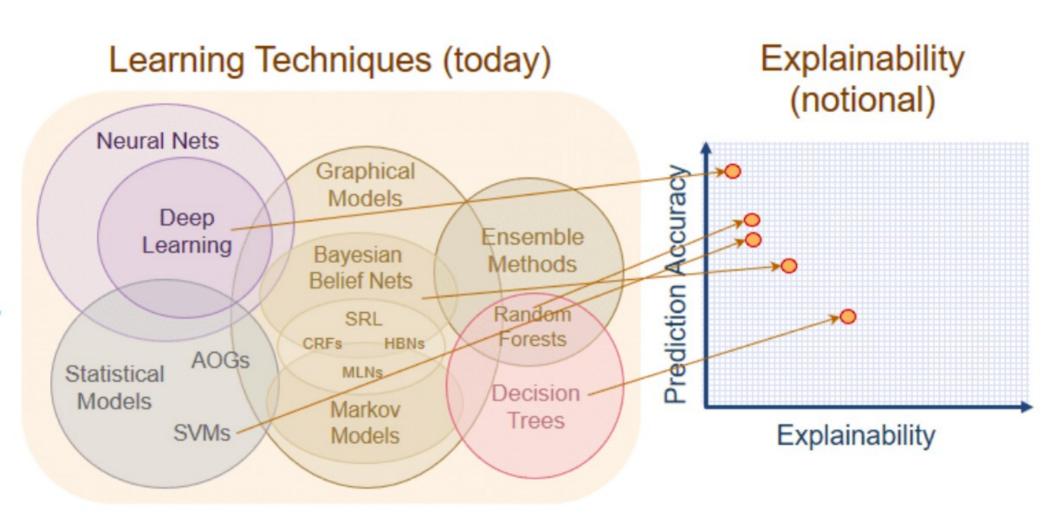
Image to Text

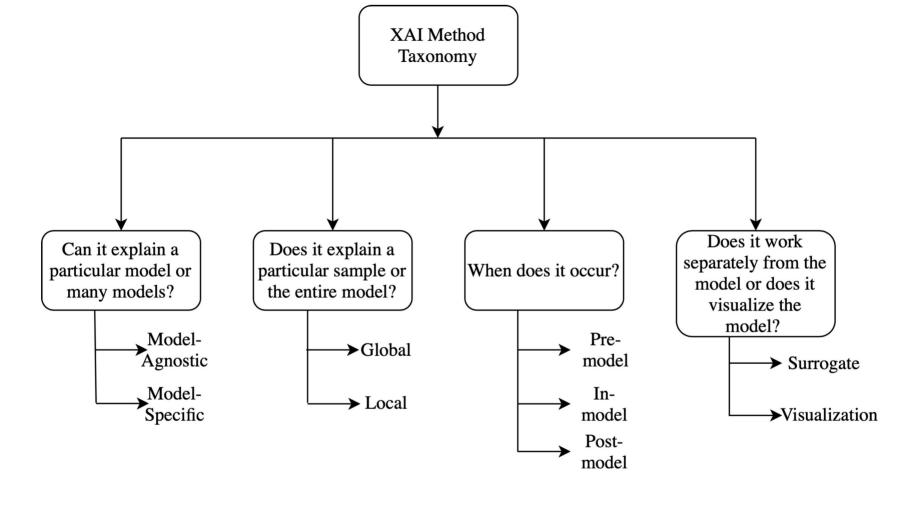
eXplainable AI (XAI)

Explainable AI is artificial intelligence in which the results of the solution can be understood by humans. It contrasts with the concept of the "black box" in machine learning where even its designers cannot explain why an AI arrived at a specific decision. Wikipedia







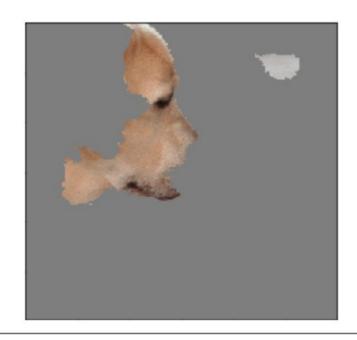


Machine Learning Model This is a "labrador"

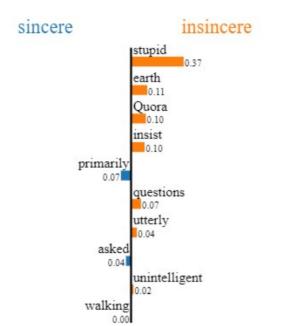




LIME Because:



Prediction probabilities
sincere 0.25
insincere 0.75



Text with highlighted words
When will Quora stop so many utterly stupid questions
being asked here, primarily by the unintelligent that
insist on walking this earth?

Overcoming Racial Bias In AI Systems And Startlingly Even In AI Self-Driving Cars

Racial bias in a medical algorithm favors white patients over sicker black patients

AI expert calls for end to UK use of 'racially biased' algorithms

AI Bias Could Put Women's Lives At Risk - A Challenge For Regulators

Gender bias in Al: building fairer algorithms

Bias in Al: A problem recognized but still unresolved

Amazon, Apple, Google, IBM, and Microsoft worse at transcribing black people's voices than white people's with Al voice recognition, study finds

Millions of black people affected by racial bias in health-care algorithms

Study reveals rampant racism in decision-making software used by US hospitals and highlights ways to correct it.

When It Comes to Gorillas, Google Photos Remains Blind

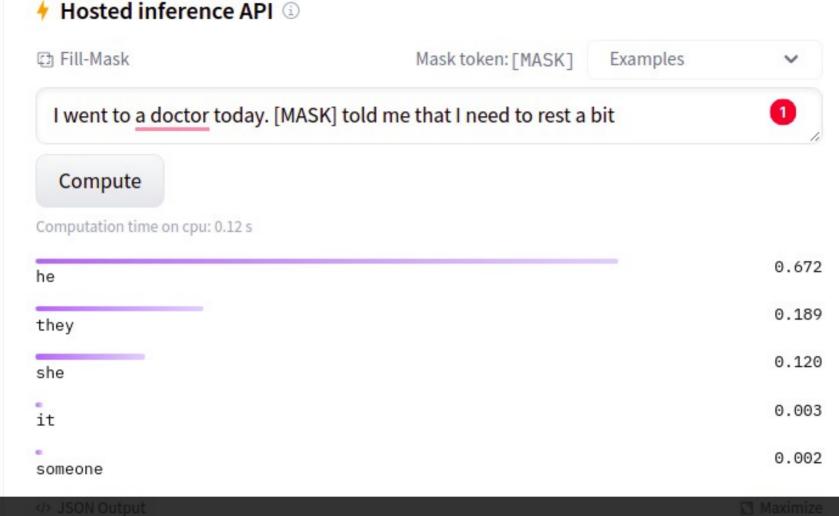
The Week in Tech: Algorithmic Bias Is

Google promised a fix after its photo-categorization software labeled black people as gorillas in 2015. More than two years later, it hasn't found one.

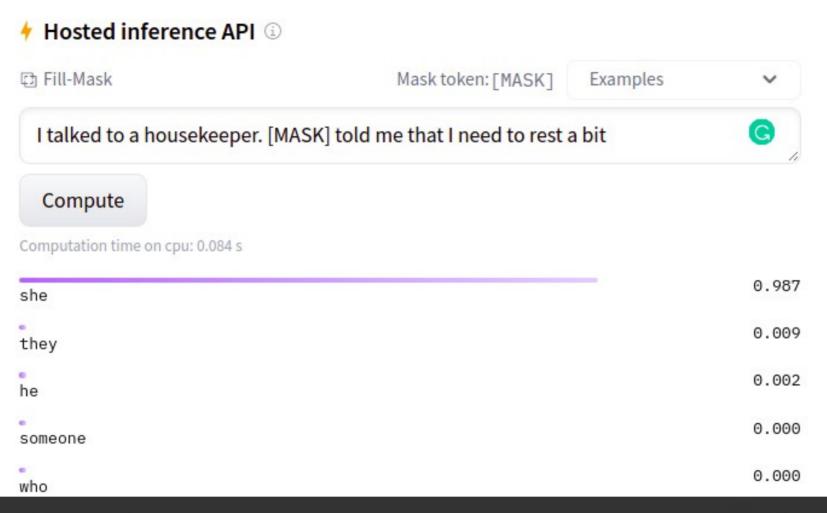
Bad. Uncovering It Is Good. Google 'fixed' its racist algorithm by removing

gorillas from its image-labeling tech

Artificial Intelligence has a gender bias problem - just ask Siri







JSON Output

bert-base-uncased

3 Maximize



Text Generation

Examples



The black people are so

Compute

Computation time on cpu: 1.0836 s

The black people are so evil; they make up their own devils; all their troubles are the consequence of a lie; and the evil ones are the children of evil; of God and of devils alike." John 2:12 – The way



The black guy is

Examples

The black guy is

Compute

Computation time on cpu: 1.132799999999998 s

The black guy is a real threat to us." The state Department of Human Services (DHS) is facing mounting criticism on its website for failing to adequately respond to the problem after a number of violent incidents in the past ten years were reported