PROCESSAMENTO DE LINGUAGEM NATURAL

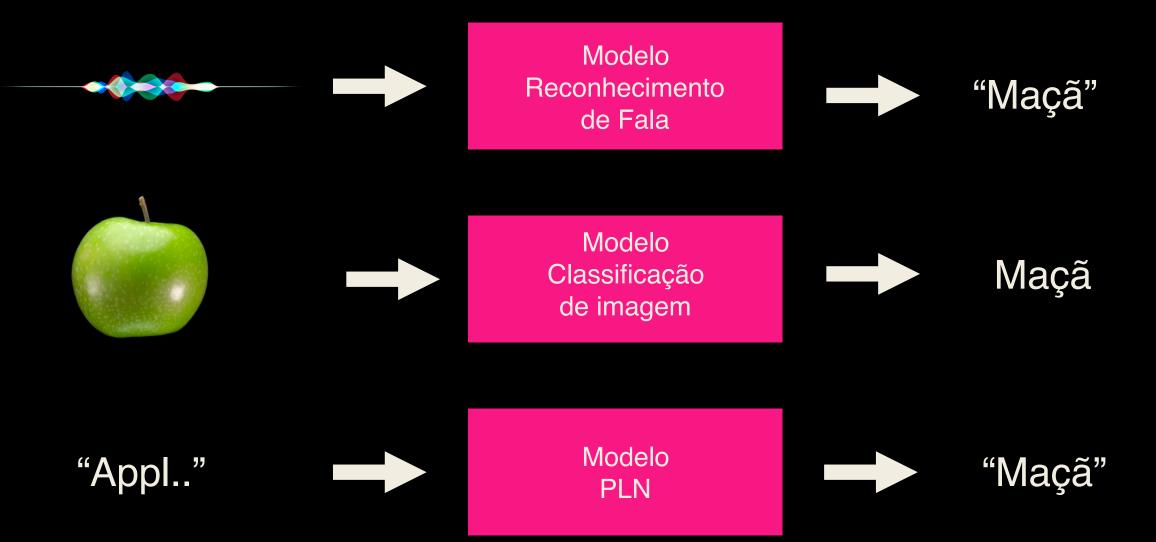
Diogo Cortiz

Ceweb.br

INTELIGENCIA A DEL CIFIAL

BASEADA EM CONHECIMENTO

APRENDIZADO ESTATÍSTICO



The New York Times

A Breakthrough for A.I. Technology: Passing an 8th-Grade Science Test

By Cade Metz

Sept. 4, 2019



SAN FRANCISCO — Four years ago, more than 700 computer scientists competed in a contest to build artificial intelligence that could pass an eighth-grade science test. There was \$80,000 in prize money on the line.

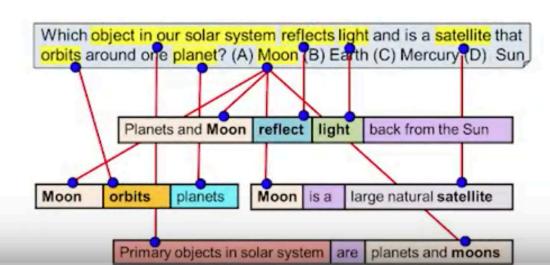
They all flunked. Even the most sophisticated system couldn't do better than 60 percent on the test. A.I. couldn't match the language and logic skills that students are expected to have when they enter high school.

But on Wednesday, the Allen Institute for Artificial Intelligence, a prominent lab in Seattle, unveiled a new system that passed the test with room to spare. It correctly answered more than 90 percent of the questions on an eighth-grade science test and more than 80 percent on a 12th-grade exam.



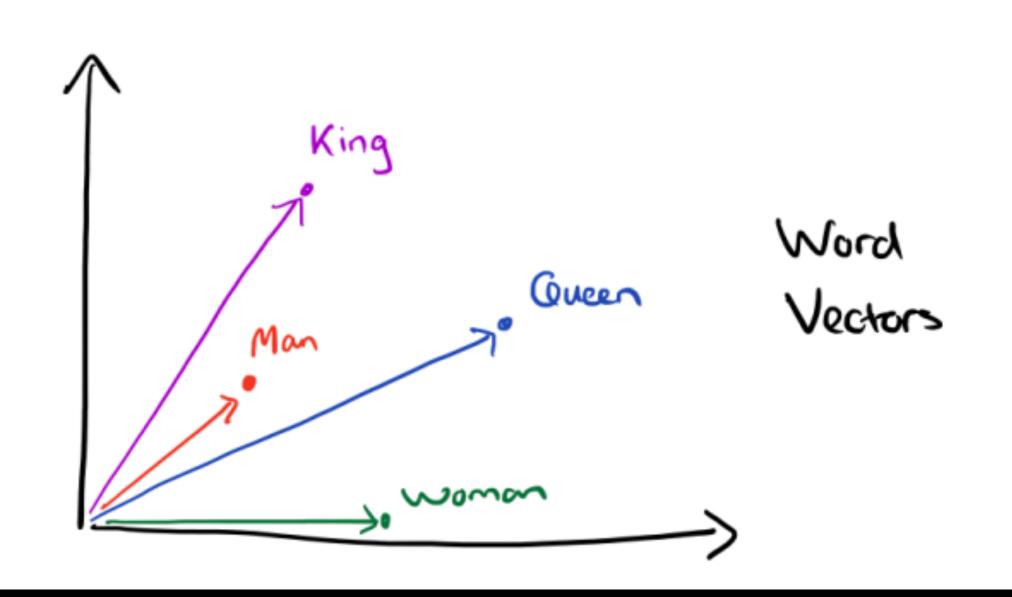
Building machines that read, learn, and reason.

The Aristo Project aims to build systems that demonstrate a deep understanding of the world, integrating technologies for reading, learning, reasoning, and explanation.



Our research integrates multiple AI technologies, including:

- > Natural language processing
- > Information extraction
- > Knowledge representation
- > Machine reasoning
- > Commonsense knowledge



Man is to Computer Programmer as Woman is to Homemaker? Debiasing Word Embeddings

Tolga Bolukbasi¹, Kai-Wei Chang², James Zou², Venkatesh Saligrama^{1,2}, Adam Kalai²

¹Boston University, 8 Saint Mary's Street, Boston, MA

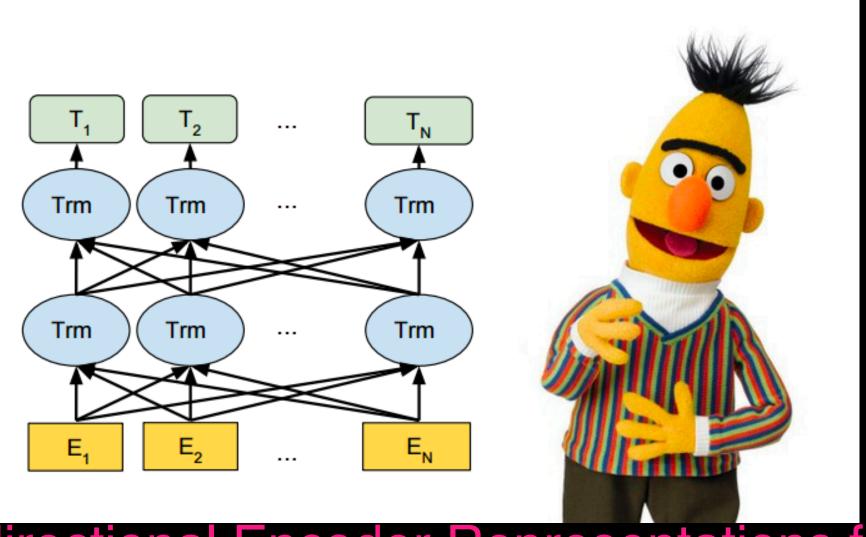
²Microsoft Research New England, 1 Memorial Drive, Cambridge, MA

tolgab@bu.edu, kw@kwchang.net, jamesyzou@gmail.com, srv@bu.edu, adam.kalai@microsoft.com

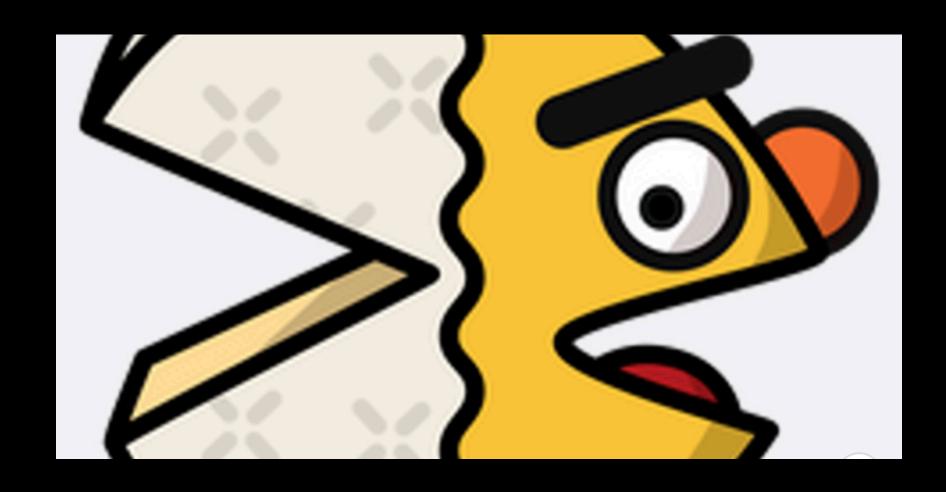
Abstract

The blind application of machine learning runs the risk of amplifying biases present in data. Such a danger is facing us with word embedding, a popular framework to represent text data as vectors which has been used in many machine learning and natural language processing tasks. We show that even word embeddings trained on Google News articles exhibit female/male gender stereotypes to a disturbing extent. This raises concerns because their widespread use, as we describe, often tends to amplify these biases. Geometrically, gender bias is first shown to be captured by a direction in the word embedding. Second, gender neutral words are shown to be linearly separable from gender definition words in the word embedding. Using these properties, we provide a methodology for modifying an embedding to remove gender stereotypes, such as the association between the words receptionist and female, while maintaining desired associations such as between the words queen and female. We define metrics to quantify both direct and indirect gender biases in embeddings, and develop algorithms to "debias" the

tote treats subject heavy commit game browsing sites seconds slow arrival tactical crafts identity drop reel firepower assound busy hoped command tanning trimester , hoped command housing caused ill rd scrimmage ultrasound modeling beautiful cake victims looks builder drafte beautiful builder drafte beautiful brilliant genius modeling beautiful drafted pageant earrings divorce ii firms seeking ties guru buddy salon thighs lust lobby voters sassy breasts pearls vases frost vi governor sharply rule homemaker dancer roses folks friend pal brass buddies burly minist — _ _ babe _ _ _ _ _ bear _ _ priest_ _ mate _ _ _ beard feminist witch witches dads boy's cousin boyhood she chap lad actresses gals wives fiance sons son girlfriends girlfriend queen brothers sisters wife dadd<mark>y</mark> nephew grandmother ladies fiancee daughters



Bidirectional Encoder Representations from Transformers (BERT)



Fair - camembert



The Keyword

Latest Stories

Product Updates

Company News

SEARCH

Understanding searches better than ever before

Pandu Nayak

Google Fellow and Vice President, Search

Published Oct 25, 2019

If there's one thing I've learned over the 15 years working on Google Search, it's that people's curiosity is endless. We see billions of searches every day, and 15 percent of those queries are ones we haven't seen before—so we've built ways to return results for queries we can't anticipate.



2019 brazil traveler to usa need a visa

BEFORE AFTER

9:00

google.com

Washington Post > 2019/03/21

U.S. citizens can travel to Brazil without the red tape of a visa ...

Mar 21, 2019 · Starting on June 17, you can go to Brazil without a visa and ... Australia, Japan and Canada will no longer need a visa to ... washingtonpost.com; © 1996-2019 The Washington Post ...

9:00

google.com

USEmbassy.gov > br > Visas

Tourism & Visitor | U.S. Embassy & Consulates in Brazil

In general, tourists traveling to the United States require valid B-2 visas. That is unless they are eligible to travel visa ...



Can you get medicine for someone pharmacy

BEFORE

AFTER

9:00 ♥◢▮ google.com



Getting a prescription filled: MedlinePlus Medical Encyclopedia

Aug 26, 2017 · Your health care provider may give you a prescription in ... Writing a paper prescription that you take to a local pharmacy ... Some people and insurance companies choose to use ...

9:00 google.com



HHS.gov > hipaa > for-professionals

Can a patient have a friend or family member> pick up a prescription ...

Dec 19, 2002 · A pharmacist may use professional judgment and experience with common practice to ... the patient's best interest in allowing a person, other that the patient, to pick up a prescription.













Notícias

Eventos

Publicações

Projetos

Cursos Quem somos Contato

Home → Notícias → Notas → Modelo de Machine Learning que auxilia na detecção de potenciais discursos de ódio nas redes sociais

Notas | 15 JUL 2020

Modelo de Machine Learning que auxilia na detecção de potenciais discursos de ódio nas redes sociais

O Ceweb.br torna público o código de implementação de um modelo de Machine Learning que auxilia na detecção de potenciais discursos de ódio nas redes sociais. Este projeto está sendo realizado em parceira com o laboratório de ciências cognitivas da Queen Mary University of London e implementa as técnicas consideradas estado da arte na área de processamento de linguagem natural. Este código implementa um modelo, da arquitetura BERT, pré-treinado em PT-BR e um treinamento para o ajuste fino (fine-tuning) para a tarefa específica de classificação de sentenças de discurso de ódio. Foi utilizado, como base de treinamento, o corpus publicado por Fortuna, P., Rocha Da Silva, J., Soler-Company, J., Wanner, L., & Nunes, S. (2019). A Hierarchically-Labeled Portuguese Hate Speech Dataset.

Diogo Cortiz