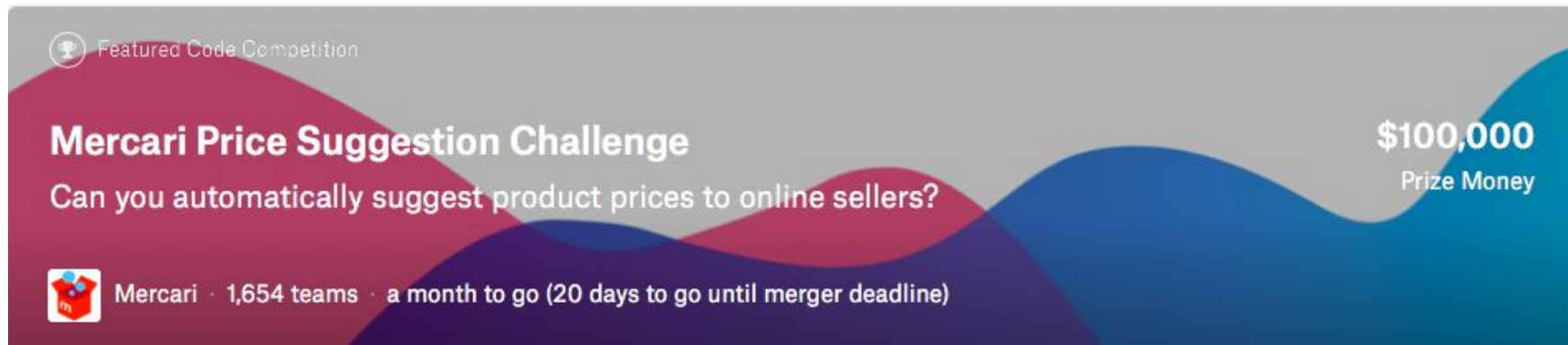


Word2vec

A story of how Rishabh's mind was blown

Backstory




A horizontal banner for a Kaggle competition. The background features a grey top section and a bottom section with overlapping wavy shapes in shades of red, purple, and blue. In the top left, a trophy icon is next to the text 'Featured Code Competition'. The main title 'Mercari Price Suggestion Challenge' is in large white font, followed by the question 'Can you automatically suggest product prices to online sellers?'. On the right, '\$100,000' is displayed in large white font, with 'Prize Money' below it. In the bottom left, the Mercari logo is shown next to the text 'Mercari · 1,654 teams · a month to go (20 days to go until merger deadline)'.

Featured Code Competition

Mercari Price Suggestion Challenge

Can you automatically suggest product prices to online sellers?

\$100,000
Prize Money

 Mercari · 1,654 teams · a month to go (20 days to go until merger deadline)

Picture taken from Kaggle

Also from Kaggle

train_id	name	item_condition_id	category_name	brand_name	price	shipping	item_description
0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts		10	1	No description yet
1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & Parts	Razer	52	0	This keyboard is in great condition and works like it came out of the box. All of the ports are tested and work perfectly. The lights are customizable via the Razer Synapse app on your PC.
2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10	1	Adorable top with a hint of lace and a key hole in the back! The pale pink is a 1X, and I also have a 3X available in white!

How do we parse the Names and Descriptions?

- NLP with Neural Networks?

- CS 224n

- Rishabh learns about word2vec

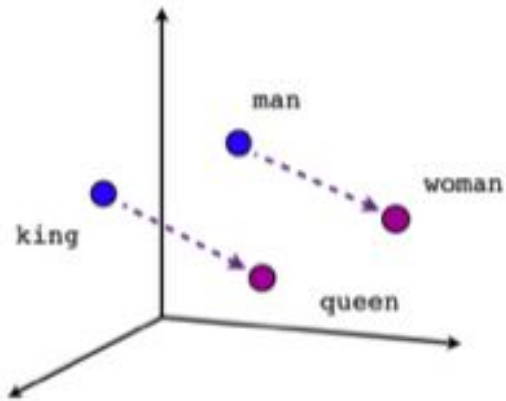
Word2Vec Description

General Idea

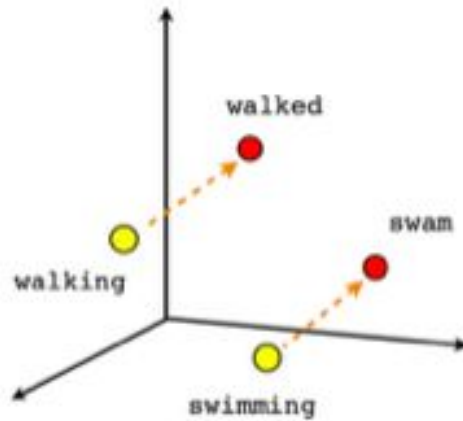
Words are vectors

Dot products should indicate how likely words appear close to each other

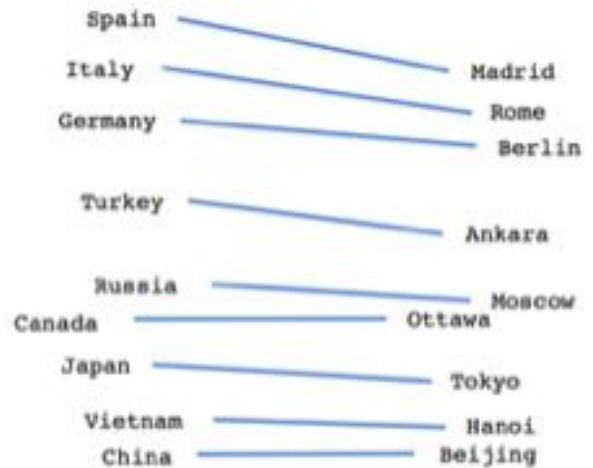
Generated randomly and adjusted via gradient descent via backprop



Male-Female



Verb tense



Country-Capital

<https://www.tensorflow.org/tutorials/word2vec>

- Geopolitics: *Iraq - Violence = Jordan*
- Distinction: *Human - Animal = Ethics*
- *President - Power = Prime Minister*
- *Library - Books = Hall*
- Analogy: *Stock Market \approx Thermometer*

<https://deeplearning4j.org/word2vec.html>

Uses

- *Text prediction

- *Use with Neural Networks

 - Sentiment Analysis

 - Grammar

 - Translations

 - Mercari Price Suggestion!

Discussion/Questions