

Build NLP model for the game of cricket



Image credits: timesofindia.indiatimes.com

In 2011, Dhoni got team India a world cup victory

Player

Team Name

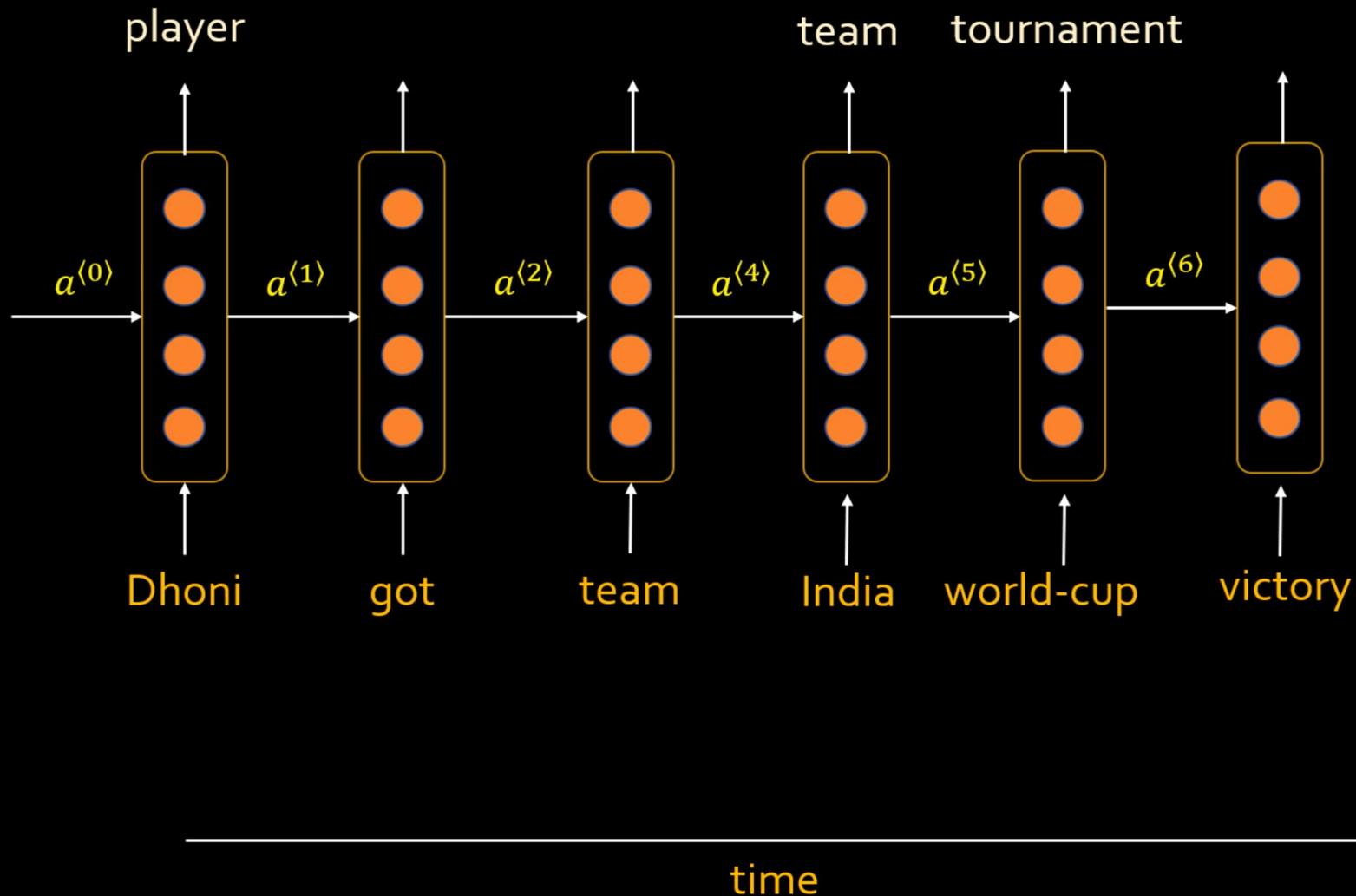
Tournament

In last Ashes game, Cummins led Australia to a victory

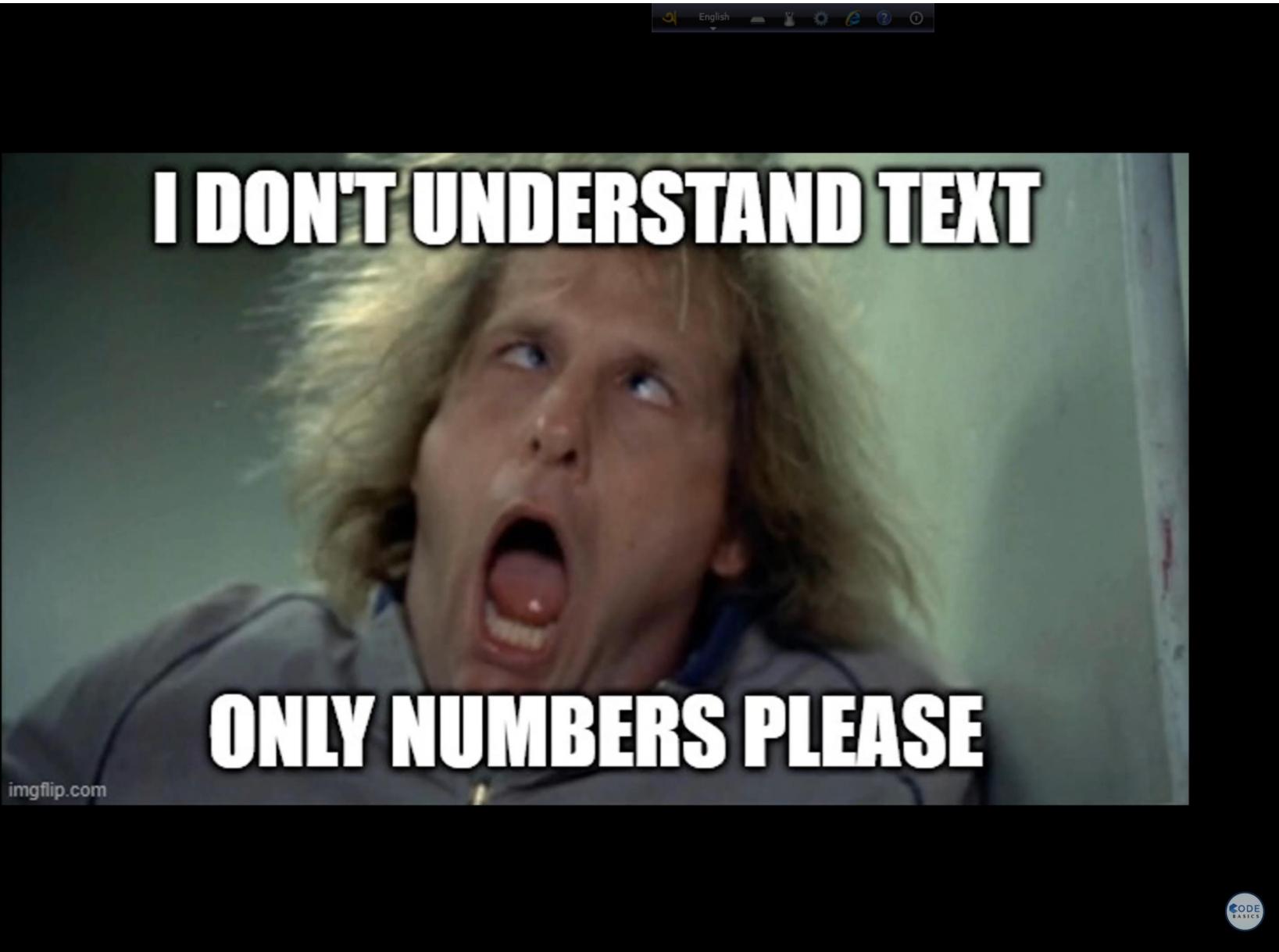
Tournament

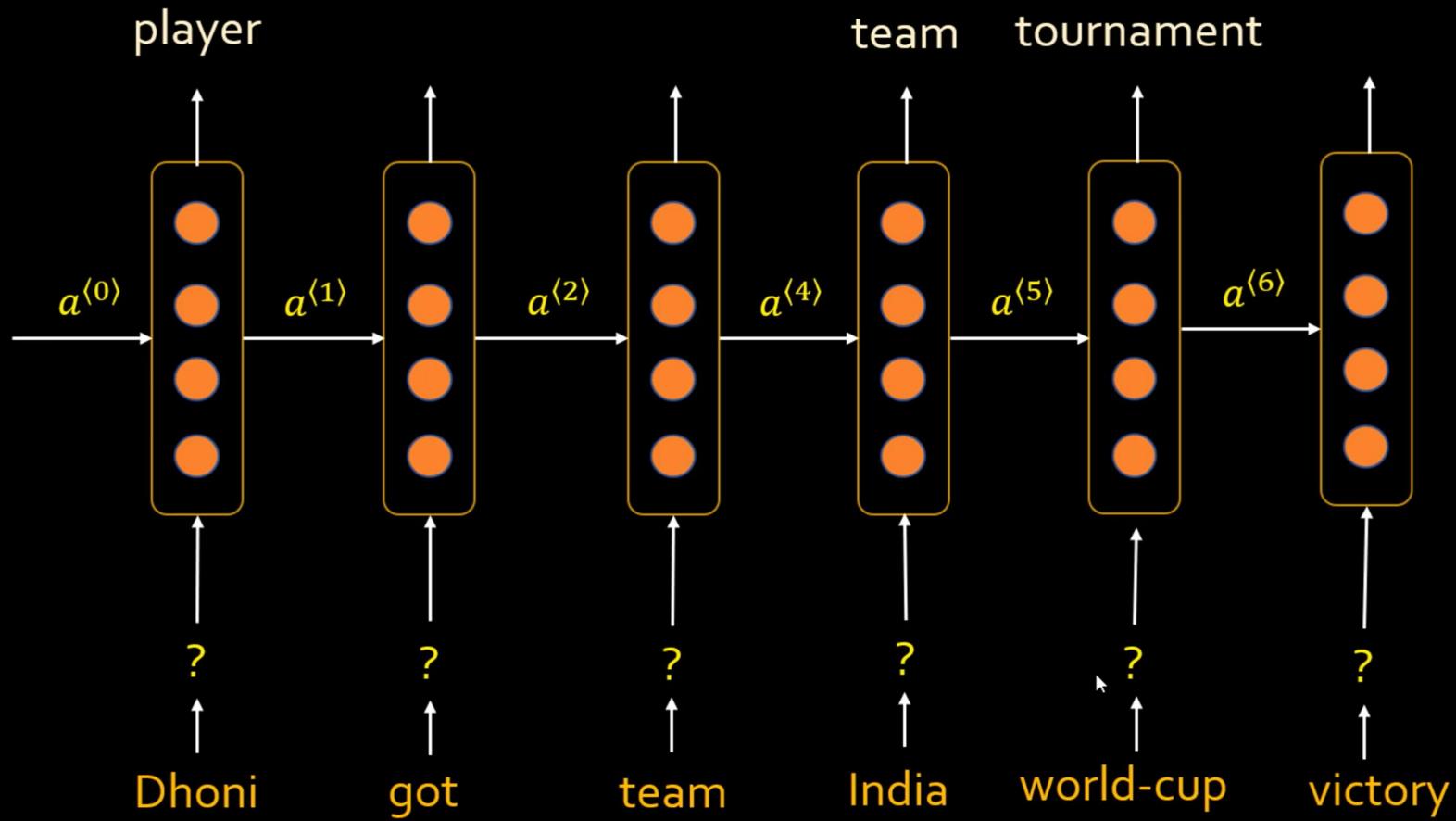
Player

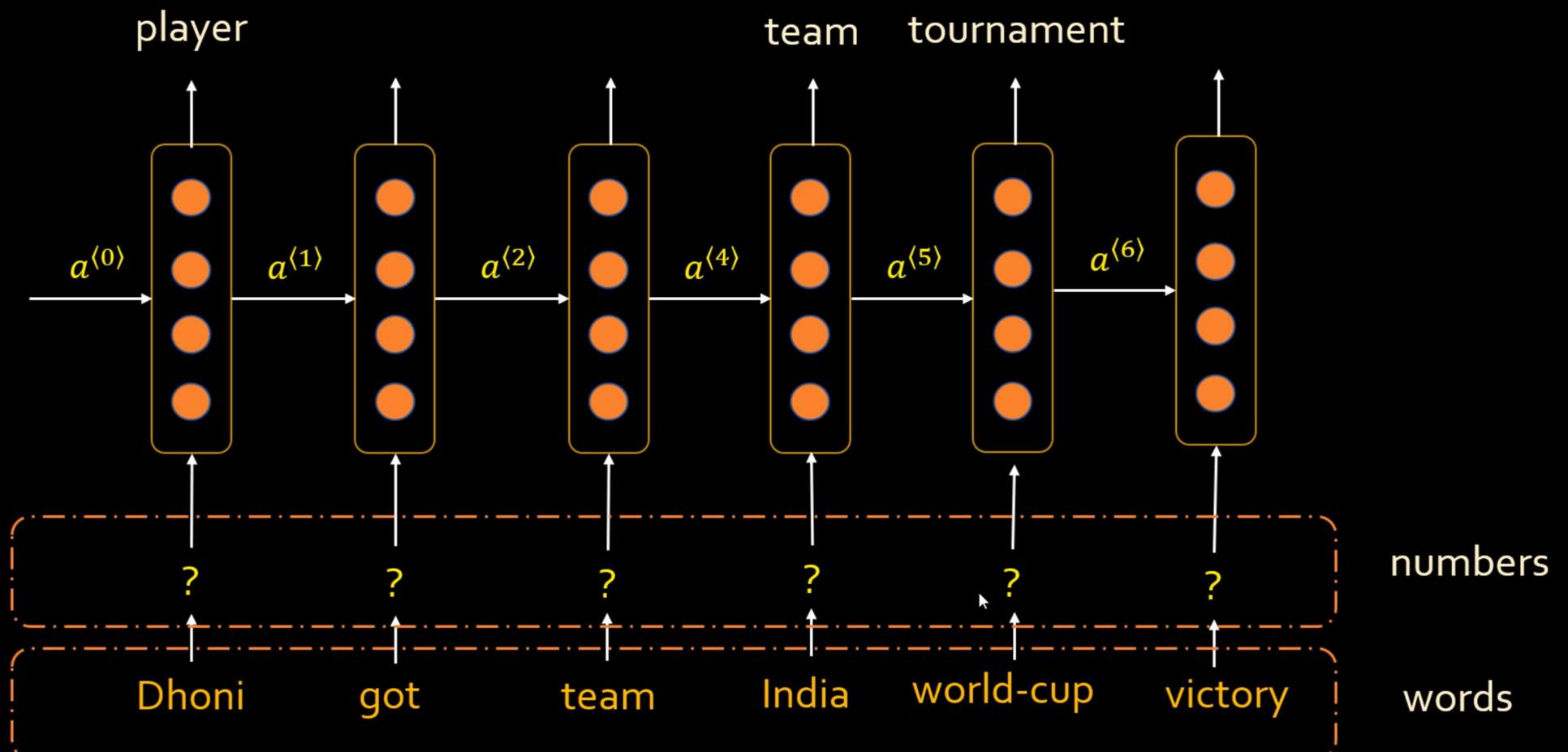
Team Name



Machine
Learning
Model







ESPNcricinfo Live Scores Series Teams News Features Videos Stats

RESULT
4th Test, Ahmedabad, Mar 3 - 7 2021, England tour of India

England	(54.5 ov) 205 & 135
India	365

India won by an innings and 25 runs

Summary Scorecard **Commentary** Report Videos Coverage Statistics

ENG 2nd Innings Full commentary

India at the 2011 World Cup [edit]

Main article: [2011 Cricket World Cup](#)

4.32pm Kohli collects the trophy and hands it over to Axar who bagged four five-wicket hauls in a new hero in Axar who lifts the trophy and celebrates in front of his home crowd in Ahmedabad the full story of the day. That's all she wrote for the Test series. The white-ball leg of the tour begins on March 12. The Motera will stage all five T20Is before the teams shift to Pune for the ODI series. We have a smorgasbord of post-match content lined up for you. Thanks for tuning in. Unsigned off for Andrew Miller, Venkat Raghav and Chandan Duorah. Take care and cheers.

Kohli: I think the comeback [in the second Test] pleased me the most. The first game was an anti-climax. The toss played a crucial role and I don't think the bowlers were in the game at all. The comeback Test match in Chennai... Yes, Axar and Washington are ready and the idea was to have young fearless. Rishabh and Washi did it with that game-changing partnership and Axar too. Well, the series, but there are always things to improve. Nothing is a given because every team is an international. We have hiccups, but we have to keep ironing them out. Well, Ashwin has been a banker for us for the last few years. Rohit's knock was the most defining moment in us coming back [in the series]. Getting 150 on the board and it got us into the contest. Throughout the series, he got important knocks and partnerships. We are in the WTC final; it was a distraction for us. It did become a bit of a distraction for us in the time since.

PLAYER OF THE MATCH

Rishabh Pant
India

India at the 2011 World Cup [edit]

Main article: [2011 Cricket World Cup](#)

As one of the host nations for the 2011 World Cup, India were expected to perform well in familiar conditions, and were considered pre-tournament favourites by the media and press. Like in 2007, India came into the World Cup on a string of strong performances, with back-to-back series wins against [Australia](#) and [New Zealand](#) at home, followed by a moderately successful tour of [South Africa](#).

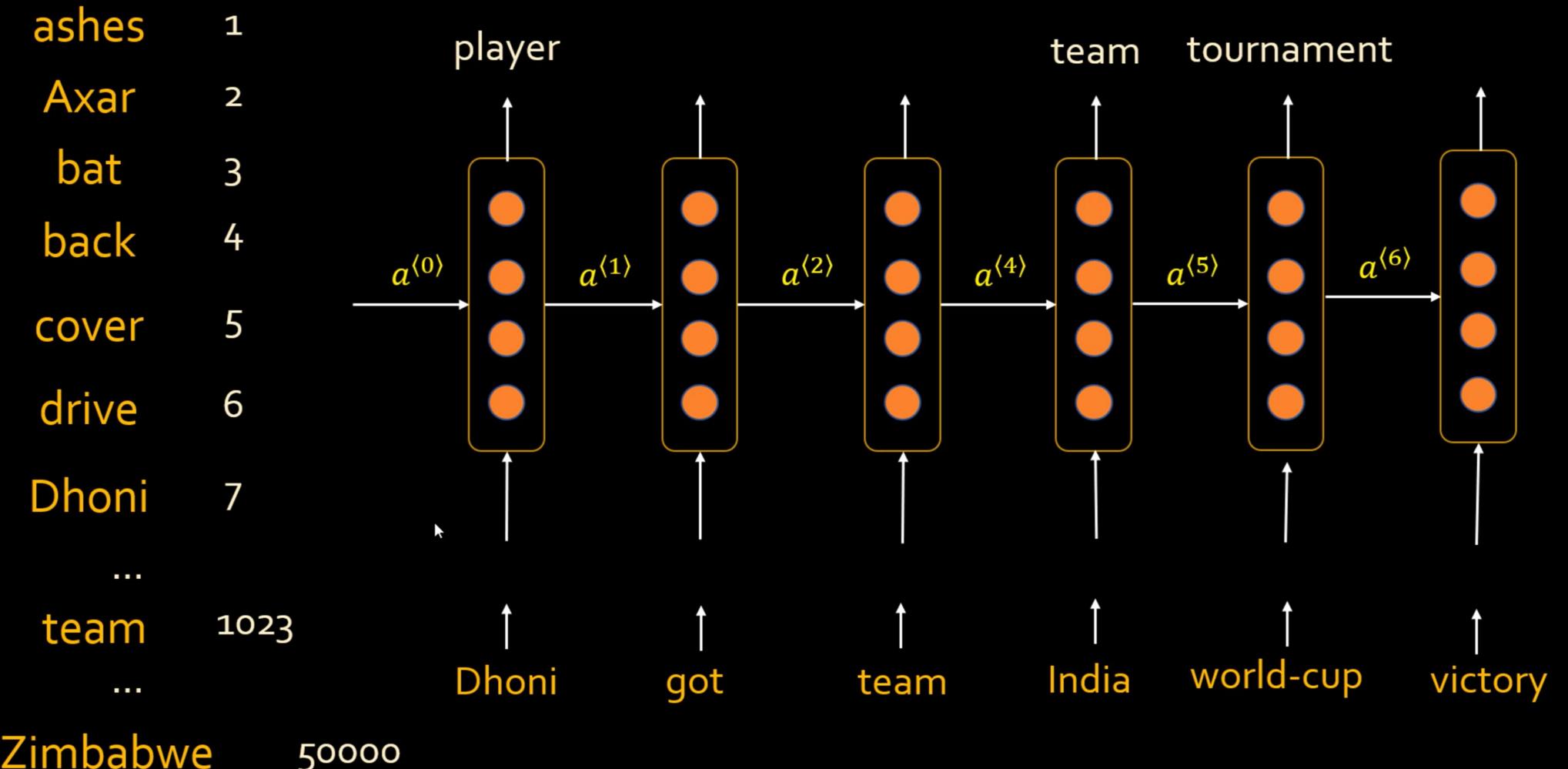
The Indian team were generally considered to be the strongest batting side in the tournament, comprising the openers [Virender Sehwag](#) and veteran [Sachin Tendulkar](#), playing in his 6th consecutive World Cup, followed by [Gautam Gambhir](#) and [Virat Kohli](#), with [Yuvraj Singh](#), skipper [Mahendra Singh Dhoni](#), [Yusuf Pathan](#) and [Suresh Raina](#) completing the star-studded batting line-up. While the bowling attack was considered more suspect, three veterans in pacers [Zaheer Khan](#) and [Ashish Nehra](#) and offspinner [Harbhajan Singh](#) were joined by [Munaf Patel](#), [Piyush Chawla](#), [Ravichandran Ashwin](#), and [Shankumaran Sreesanth](#). The 1996 World Cup format was used for the tournament, following widespread criticism, particularly from the [BCCI](#), over the 2007 format. India were placed in Group B in the Group stage alongside co-hosts [Bangladesh](#), [South Africa](#), [England](#), the [West Indies](#) and associates [Holland](#) and [Ireland](#).

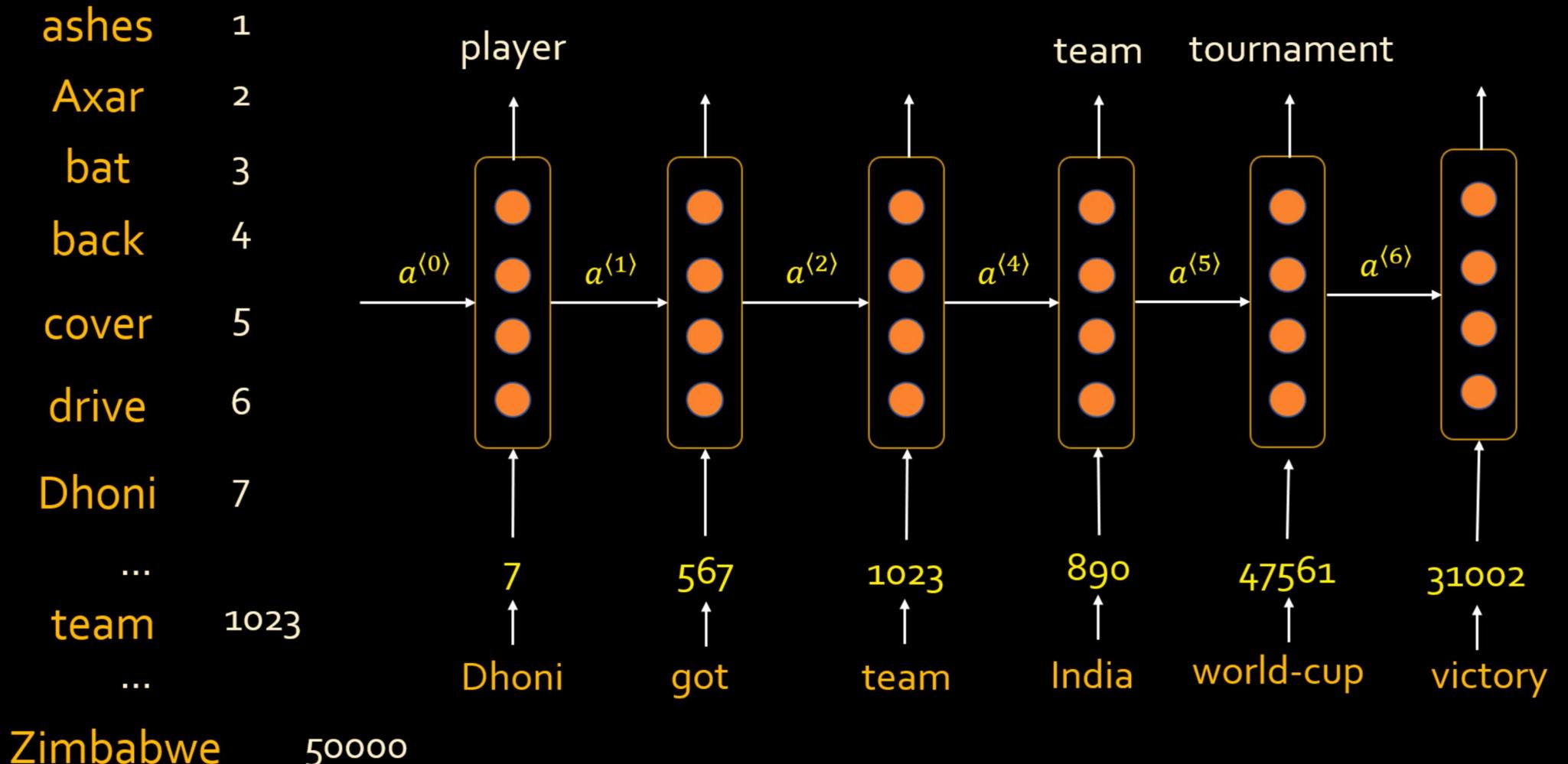
India's 2011 World Cup campaign started with an 87-run win against [Bangladesh](#) at [Dhaka](#). With centuries from Sehwag (175 from 140 balls, 14 fours, 5 sixes) and Kohli (100 not out from 83 balls, 8 fours, 2 sixes) India scored 4/370. Fast bowler Munaf (4-48) took 4 wickets during the Bangladesh reply, including that of opener [Tamim Iqbal](#) (70 from 86 balls, 3 fours, 1 six) as Bangladesh scored 9/283 in 50 overs to fall short.

India next played England at [Bangalore](#), which was a thriller. On a batting-friendly track at the [M. Chinnaswamy Stadium](#), India chose to bat first. Tendulkar (120 from 115 balls, 10 fours, 5 sixes) lashed his way through the English attack, ably supported by Gambhir (51 from 61 balls, 5 fours) and Yuvraj (58 from 50 balls, 9 fours). After the 45th over, India were 305/3 and were looking to pass 350 during the batting Powerplay. Instead, English bowler [Tim Bresnan](#) (5-48) engineered a collapse with four quick wickets in 16 deliveries, as India slumped to a still-formidable total of 338 all out. England started their run chase by blasting 77 runs off the first 10 overs. Skipper [Andrew Strauss](#) (158 from 145 balls, 18 fours, 1 six) decimated the Indian bowling attack with unparalleled ferocity, and was supported by [Ian Bell](#) (69 from 71 balls, 4 fours, 1 six). At 2/280 in the 43rd over, England was cruising to an extraordinary victory. However, Zaheer responded by taking the wickets of Strauss, Bell, and [Paul Collingwood](#) in 11 deliveries, as England were reduced to 289/6. Tailenders Bresnan, [Graeme Swann](#), and [Ajmal Shahzad](#) each hit massive sixes in the final few overs to regain some momentum, and Swann scored 13 runs off the final over to salvage a tie with India (338/6 in 50 overs). It was only the fourth tied match in World Cup history.



ashes	1
Axar	2
bat	3
back	4
cover	5
drive	6
Dhoni	7
...	
team	1023
...	
Zimbabwe	50000





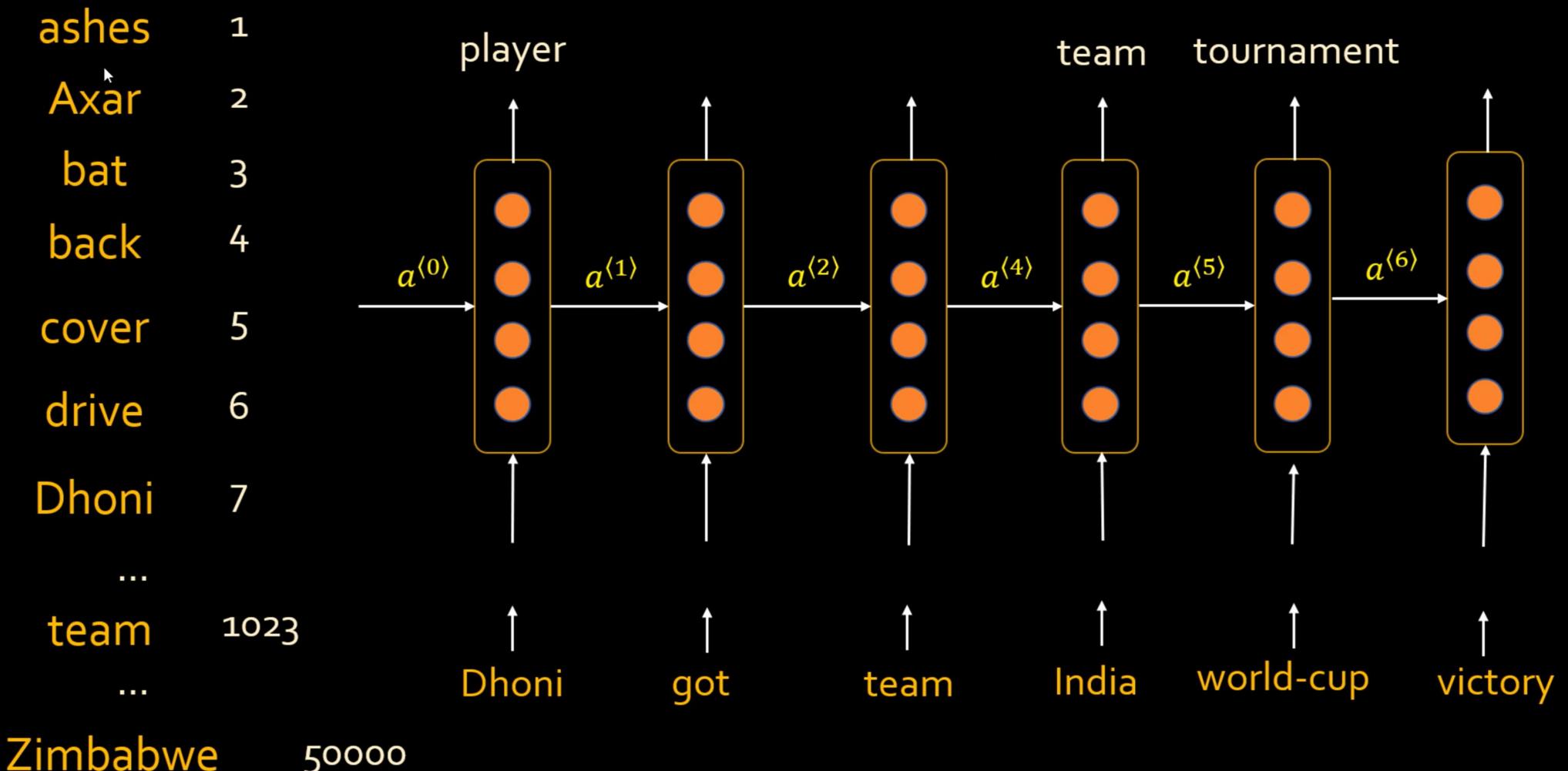
English





Issue with option 1: unique numbers

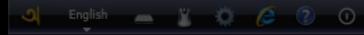
Numbers are random. They don't capture relationship between words



English



	ashes	Axar	Bat	back	cover	drive	dhoni	..	Zimbabwe
ashes	1	0	0	0	0	0	0	...	0
Axar	0	1	0	0	0	0	0	...	0
Bat	0	0	1	0	0	0	0	...	0
Back	0	0	0	1	0	0	0	...	0
...									
Zimbabwe	0	0	0	0	0	0	0	...	1



Issue with option 2: one hot encoding

1. Doesn't capture relationship between words
2. Computationally in-efficient



English



imgflip.com

How can we capture similarities between two words?





Bedrooms: 3
Area: 1850 **sqr ft**
Bathrooms: 2.5

Bedrooms: 3
Area: 1700 **sqr ft**
Bathrooms: 2

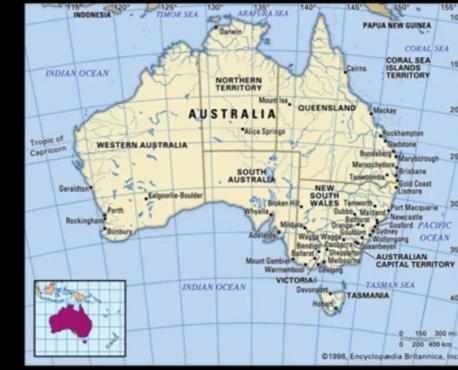
Bedrooms: 10
Area: 7500 **sqr ft**
Bathrooms: 2



Dhoni



Cummins



Australia

Person: 1

Healthy/fit: 0.9

Location: 0

Has two eyes: 1

Has government: 0

Person: 1

Healthy/fit: 0.87

Location: 0

Has two eyes: 1

Has government: 0

Person: 0

Healthy/fit: 0.7

Location: 1

Has two eyes: 0

Has government: 1

Image credits: cnn.com, Britannica.com and outlookindia.com



Dhoni



Cummins



Australia



Image credits: cnn.com, Britannica.com and outlookindia.com



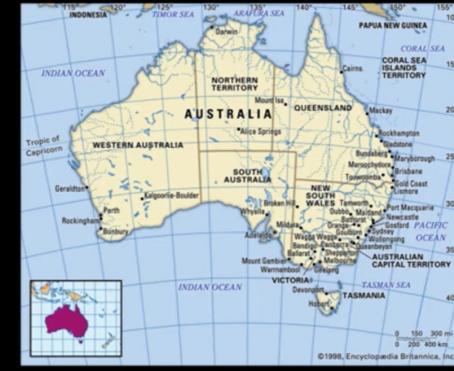
Dhoni

$$\begin{bmatrix} 1 \\ 0.9 \\ 0 \\ 1 \\ 0 \end{bmatrix}$$



Cummins

$$\begin{bmatrix} 1 \\ 0.87 \\ 0 \\ 1 \\ 0 \end{bmatrix}$$



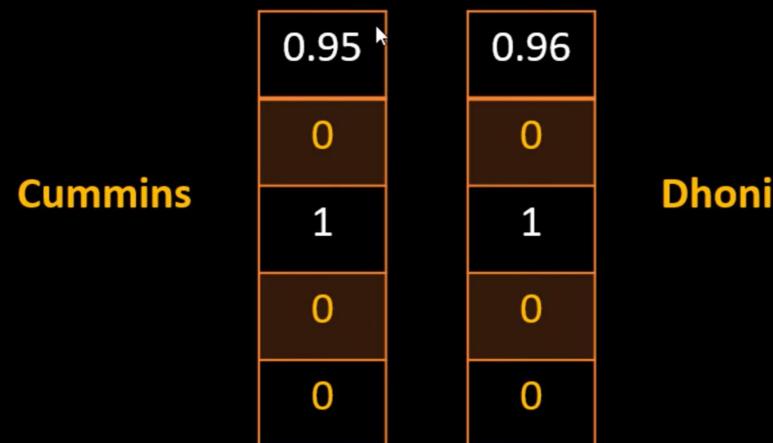
Australia

$$\begin{bmatrix} 0 \\ 0.7 \\ 1 \\ 0 \\ 1 \end{bmatrix}$$

Image credits: cnn.com, Britannica.com and outlookindia.com

	ashes	Australia	Bat	Cummins	cover	Dhoni	World cup	..	Zimbabwe
Person	0	0.02	0.1	0.95	0.03	0.96	0.67	...	0.04
Country	0	0.97	0	0	0	0	0	...	1
Healthy & Fit	0	0	0.3	0.87	0	0.9	0	...	0
Event	1	0.1	0	0	0.4	0	1	...	0
gear	0	0	1	0	0	0	0	...	0

	ashes	Australia	Bat	Cummins	cover	Dhoni	World cup	..	Zimbabwe
Person	0	0.02	0.1	0.95	0.03	0.96	0.67	...	0.04
Country	0	0.97	0	0	0	0	0	...	1
Healthy & Fit	0	0	0.3	0.87	0	0.9	0	...	0
Event	1	0.1	0	0	0.4	0	1	...	0
gear	0	0	1	0	0	0	0	...	0



	ashes	Australia	Bat	Cummins	cover	Dhoni	World cup	..	Zimbabwe
Person	0	0.02	0.1	0.95	0.03	0.96	0.67	...	0.04
Country	0	0.97	0	0	0	0	0	...	1
Healthy & Fit	0	0	0.3	0.87	0	0.9	0	...	0
Event	1	0.1	0	0	0.4	0	1	...	0
gear	0	0	1	0	0	0	0	...	0



Converting words to numbers

1. Unique numbers
2. One hot encoding
3. Word embeddings
 1. TF-IDF
 2. Word2Vec