

There are various approaches for converting
text into vector

Label
Encoding

One Hot
Encoding

Bag Of Words

TF-IDF

Word
Embeddings



Tesla

[Elon Musk](#) wants time to prepare for a trial over his contentious withdrawal from an agreement to buy [Twitter](#) for \$44 billion, according to a filing in a Delaware chancery court by his attorneys on Friday.

Musk's team says the trial should wait until next year, after Twitter had requested expedited treatment and a hearing as early as this September.

Apple

Apple CEO Tim Cook says there's at least one question your iPhone can't answer: How do you build a life that provides both meaning and fulfillment?

Luckily, Cook himself has some advice on that front. At Gallaudet University's commencement ceremony in Washington D.C. last month,

Apple

Apple leaks have revealed that iPhone 14 Pro models will receive multiple upgrades and higher pricing. But now a new report claims standard iPhone 14 Pro models will also receive a price bump, despite being virtually unchanged from their predecessors.

Speaking to [The Sun](#), Dan Ives, head of popular analyst group Wedbush, said supply chain prices as the driving force behind the increase.

Tesla

The Tesla Model 3 Long Range topped the charts with a 74.2/100 "greenpower" rating. It's followed by the Lucid Air and the Model Y Long Range. The Model 3 LR has a battery size of 83.0 kWh and a charging speed of 18.0 miles/minute.

Meanwhile, the [Lucid Air ranked second](#) in the ratings with 70.5/100 greenpower. It's impressive given that it has the largest battery of 112 kWh among all the cars that made it to the list. The Lucid Air has a range of 451 miles, which is 113 miles more than the Model 3 LR at 451 miles versus Tesla's 358 miles. However, the Air's charging speed is slower than the Model 3 LR.

Apple

As [Apple](#) seeks to bolster its subscription service to compete with Spotify, the company is adding exclusive performances from artists, who will record in Apple's studios to cover classics and recreate their own hits.

On Friday, the company introduced Apple Music Sessions, featuring performances from singers including Carrie Underwood and Tenille Townes.



	musk	tesla	iphone	ipad	model-3	cook	itunes	gigafactory	...
Tesla	[0	14	0	0	9	0	0	2	...
Apple	[0	0	13	6	0	0	3	0	...
Tesla	[5	7	0	0	0	1	0	4	...



Dhaval sat on a sofa and
ate a samosa

Dhaval sat on a samosa
and ate a sofa



Dhaval sat on a sofa and
ate a samosa

Dhaval sat on a samosa
and ate a sofa



Meaning of a sentence is
determined by **order** of
words

Dhaval sat on a sofa and ate a samosa

BOW

Dhaval

sat

on

a

sofa

and

ate

...



Dhaval sat on a sofa and ate a samosa

BOW

Dhaval sat on a sofa and ate ...

Dhaval sat



Dhaval sat on a sofa and ate a samosa

BOW

Dhaval sat on a sofa and ate ...

Dhaval sat sat on on a a sofa sofa and ...



Dhaval sat on a sofa and ate a samosa

BOW

Dhaval sat on a sofa and ate ...

bi-gram

Dhaval sat sat on on a a sofa sofa and ...



Dhaval sat on a sofa and ate a samosa

BOW

Dhaval sat on a sofa and ate ...

bi-gram

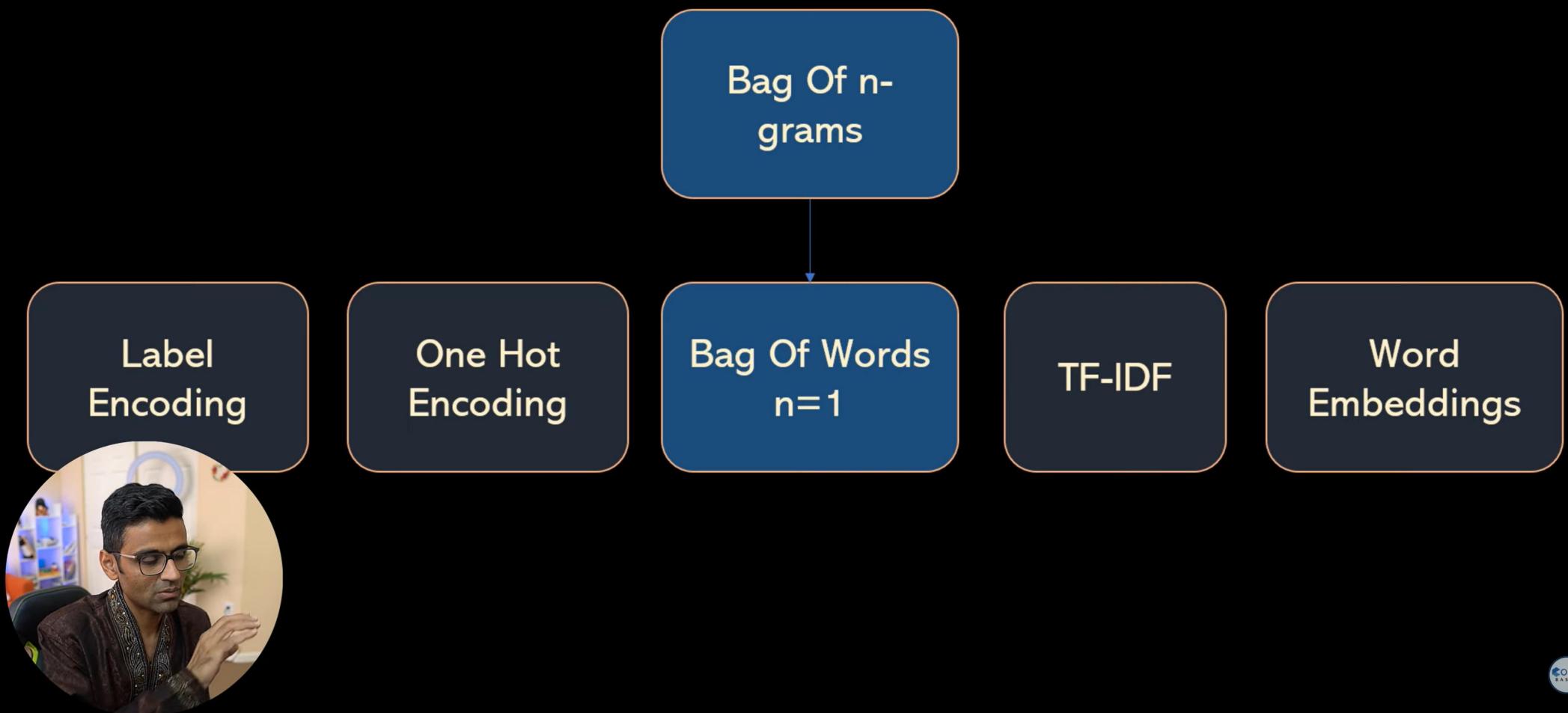
Dhaval sat sat on on a a sofa sofa and ...

tri-gram

Dhaval sat on sat on a on a sofa a sofa and ...



There are various approaches of converting text into vector



Doc 1

Thor ate pizza

Doc 2

Loki is tall

Doc 3

Loki is eating pizza



Pre-processing

Thor ate pizza

Thor eat pizza

Doc 1

Loki is tall

Loki tall

Doc 2

Loki is eating pizza

Loki eat pizza

Doc 3



Pre-processing

Thor ate pizza

Thor eat pizza

Doc 1

Loki is tall

Loki tall

Doc 2

Loki is eating pizza

Loki eat pizza

Doc 3

Thor eat pizza , Loki tall



Pre-processing

Thor ate pizza

Thor eat pizza

Doc 1

Loki is tall

Loki tall

Doc 2

Loki is eating pizza

Loki eat pizza

Doc 3

Thor eat pizza , Loki tall

Doc 1

[1 1 1 0 0]

Doc 2

[0 0 0 1 1]

Doc 3

[0 1 1 1 0]



Pre-processing

Thor ate pizza

Thor eat pizza

Doc 1

Loki is tall

Loki tall

Doc 2

Loki is eating pizza

Loki eat pizza

Doc 3

"Thor eat" "eat pizza" "Loki tall" "Loki eat"



Pre-processing

Thor ate pizza

Thor eat pizza

Doc 1

Loki is tall

Loki tall

Doc 2

Loki is eating pizza

Loki eat pizza

Doc 3

"Thor eat" "eat pizza" "Loki tall" "Loki eat"

Doc 1

[1 1 0 0]



Pre-processing

Thor ate pizza

Doc 1

Thor eat pizza

Loki is tall

Doc 2

Loki tall

Loki is eating pizza

Doc 3

Loki eat pizza

"Thor eat" "eat pizza" "Loki tall" "Loki eat"

Doc 1

[1 1 0 0]

Doc 2

[0 0 1 0]

Doc 3 ↗

[0 1 0 1]



Pre-processing

Thor ate pizza

Doc 1

Thor eat pizza

Loki is tall

Doc 2

Loki tall

Loki is eating pizza

Doc 3

Loki eat pizza

Thor eat pizza Loki tall "Thor eat" "eat pizza" "Loki tall" "Loki eat"

Doc 1

[1 1 1 0 0 1 1 0 0]

Doc 2

[0 0 0 1 1 0 0 1 0]

Doc 3

[0 1 1 1 0 0 1 0 1]



Limitations of bag of n-grams model



Limitations of bag of n-grams model

As n increased, dimensionality,
sparsity increases



Limitations of bag of n-grams model

As n increased, dimensionality,
sparsity increases

Doesn't address out of
vocabulary (OOV) problem

