

 $\frac{9m!}{9T} = \frac{9d}{9T} \times \frac{90^3}{98} \times \frac{90^3}{90^3} \times \frac{90^5}{90^5} \times \frac{9m!}{90^5}$   $\frac{9m!}{90^5} \times \frac{9m!}{90^5} \times \frac{9m!}{$ + 3L 39 303 302 30, 300; 3 pecal returnes # Problem with RNN: explading gradient Varisting graduent

Cishen weight value Caha weight value very neal from).

for Eg. India is a great country. There are many canguages. You www. fund out and diversity is also very high. [Here I most of the people speak hind; ?

3) If we are going to process such huge sentence using simple know then it might happen that it happen that it happen that it happen that it happen the consent with out a lunge time stamp requirement. for Ey: In above sentence

He we are going to ASK RNN that where most of the people speak hinds, then it might not give an answer as India due to huge tentence length the Reason why RNN cooles context in case of high sentence is it is prome to variating gradient from exploding gradient converinternally is uses gradient descent approach for opinisations of trainable parami-At Vanishing Gradient occurs due to Cong term dependencies (long term dependencies (long termouces)

To much sentences the weight updahade formula mapping dependences in Chain (as disserted earlier to 3 ts) will be very lunge to loss of nonexit.

the the recall banishing and exploseding problems from ANN Lextrages.

- \* · LSTM & Long Whork Term Memory?
- -> RNN in the biogani buffering from short term memory. There is no mechanism is place within RNN that can basically enable it hold long torm dependency of hold the context in case of large sentences.
- As, LSTM is basically an update to the stated prestuen a shoot too with long term dependency.
  - s upto what time stamp can RNN hold. the context?

And: There is no such number as it may vary vois south sentences passed. This is more part of experimental in nature.

A THE TOTAL If Zeel wishes to know the state of

conterst held by cell A which is very four or in RNN we are not provided

update the Latest information to the memory cell that the will in town help in maintaining Mording the long town dependencies.

1 google LSTM interview question. > How size of hidden state calculated? No of newons we wish to take inside hidden layer = Size of Hidden State & Se the preactical in ipyth file