Additional data :-

1) Loss function Vs Cost function

	Loss function	Cost function
①	A loss function is a way to measure how wrong a m/c model is when it makes prediction.	A cost function is a way to measure how well a m/c model is performing overall by calculating avg error across all prediction
②	MSE (mean squared error) cross-entropy (loss	MAE, MSE
③	Better prediction = Smaller loss	Smaller loss = Better prediction
④	measure of error for single prediction	measure avg error across all prediction
⑤	focus on one datapoint	focus on entire dataset.

2) What is ANN ?

→ An ANN is a m/c learning model inspired by how human brain works. It design to process information recognize pattern and make decision by mimicking the structure and functioning of biological neuron.

"In simple terms" -

ANN is system made up of layer of nodes (neurons) connected to each other each node process information and passes to next layer. The nw learns by adjusting these connection based on data it

3) What is Optimizers?

An optimizer is a tool or algorithm used in ML learning to improve a model adjusting it's parameters like (weights & biases) during training

The goal is to minimize the cost function and make the model perform better.

16) Word2Vec → CBOW (Continous Bag of words)
→ Skipgram

Pre trained model

Train model from scratch.

1) CBOW (continous bag of words) :-

corpus - Dataset

[Apple is a first company who cross 1 trillion dollar market cap]

window size = 5 ← odd number

I/P	O/P
Apple, is, first, company	a
is, a, company, who	first

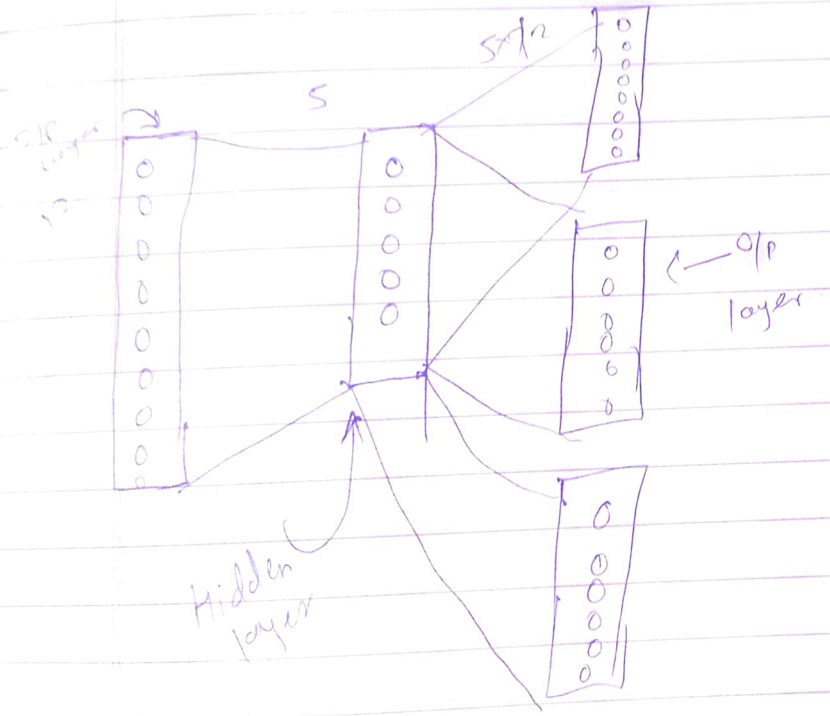
Skipgram:

Apple is a first company who cross 1 trillion $ market cap

no cab size = 12

window size = 5

I/P	O/P
a	Apple, is, first, company
first	is, a, company, who



* When should we apply Skipgram & CBOW →

Small Dataset → CBOW

Huge Dataset → Skip gram

Advantages of word2vec

→ Dense matrix
→ Semantic info get capture
→ ~~Vocab~~ Fixed set of dimension.
→ OOV is also solved