

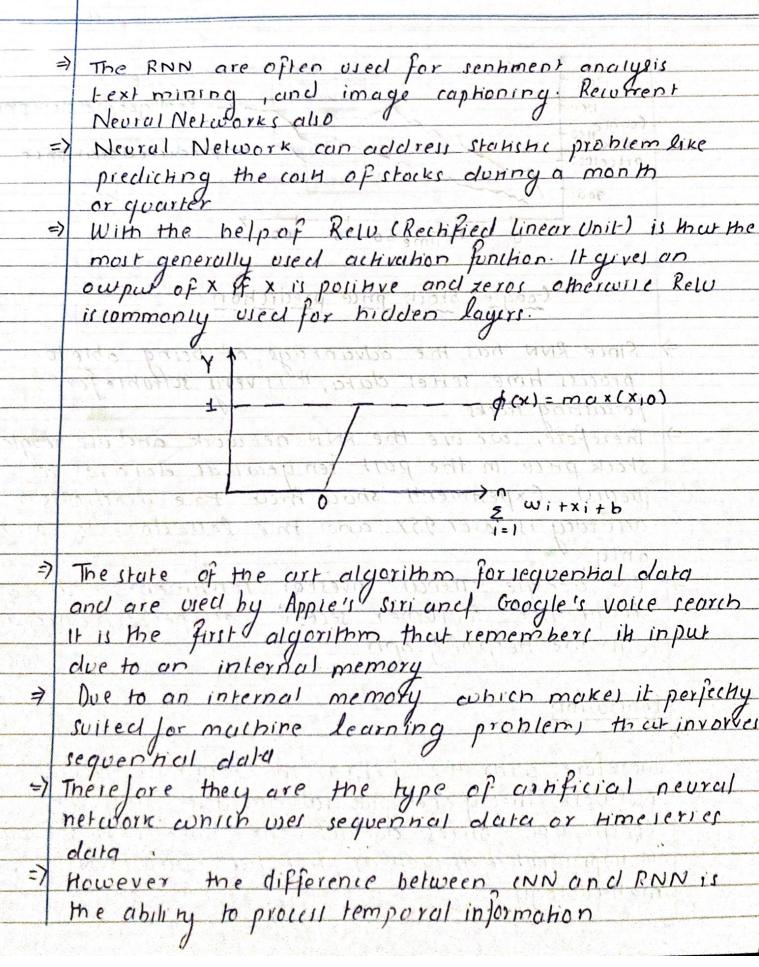
	TSSM Page No.
	Deep learning
	Shiyam A Kadon
	Assignment - 4 BE-20 Computer
	<u> </u>
	The state of the s
	Title: Use the Google Stock price datuset and design a time series analysis and prediction system using
	a time series analysis and prediction system using
	RNN
2170	Objective: Students should be able to classify the boogle stock price dataset and should be able to design a
0	Stock price dataset and should be able to design a
	time series analysis with the nelpof RNN
	2
60	Prerequiste:
7	Busic Concept of programing language Concept of classification
2	Concept of classification
3	Concept of Deep Neural Network
4	Leaving to The rance is a course for the
110	"Theory: Is anow board att stills to tomm
	podux phinide
1 7	Its helpful to understand at least some of the basic
- 2	before getting to implementation. At a high level , a
	recorrent newfol network (RNN) processes sequences
	whether daily stock prices, sentences, or sentors
	measurement
ラ	One element at a time while retaining a memory
	(called a state) of what has come previously
	in the sequence
=)	Recorrent means the output at the corrent time
	grep becomes the input to the next step
=7	The model considers not just the coment input
	but what it remembers about the preceding eleme
	decine





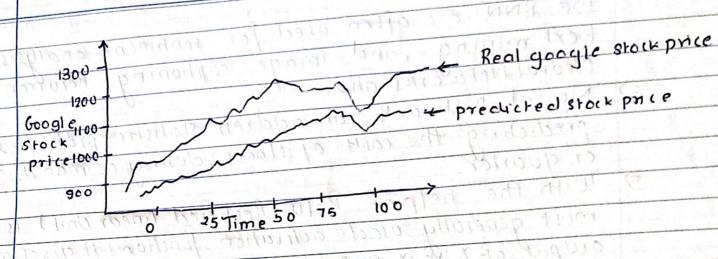
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	obset A south
	restenção do de de la compressión de la compress
	Recorrent RNN N
	connection
	Though pure distance are and a second
15	me enotine coupie KNN sishous sally
	Input
5/=7	This memory allows the network to learn long- term dependencies in a sequence which means is can take entire context into account when
	making a prediction.
=>	A RNN is designed to mimic the human way
	of processing sequencies we consider the entire
	sentence conile forming a response instead of
	words by themselves
=)	Example The concert was boring for the first 15
	minutes while the band warried up then was
	ferribly exciting
7	However RND can model a collection of records
5	(ie time collection) so that each pattern can be
Yas	the time (official) so that each partition can be
	assumed to be dependent on previous ones
	TATO ANSMISSION
15/0	it the element of a fine comity for
4	more stated of the contraction of the contraction
	The sequence of
Till	Paralla Sal la Sum Lady makin in month (5
	E. Asia warm and of Tenne and common in the
10	ecoment Neural Network
31	the same of such as done may is to accomplished
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## Google Stock price prediction

- => Since RNN has the advantage of being able to
  process time series data, It is very suitable for
  forcushing stocks
- Therefore, we we the RNN network and use brought

  stock price in the past ten years as daraset to

  predict Experiment show that the prediction

  accuracy is over 95% and the loss close to 0.1%

  only
- The Google Trends" investor sentiment index appearson to predict consumer sector outperformance also with the help of graph

DYDOO SOO

## Conclusion:

Therefore with the help of the Recurrent Neural Network theory and prochial analysis using the Google stock prices dataset the time series analysis is impremented as well as predicted using RNN methodology