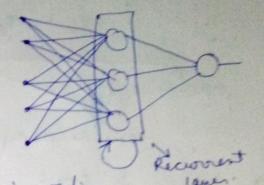
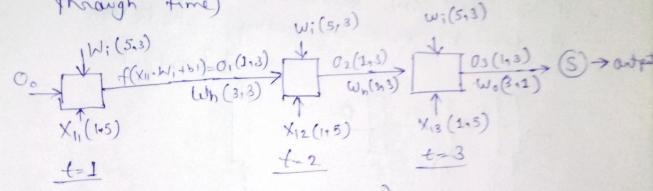
RNN FORWARD PROPAGATION

	Yevieu	sentiment
X1	X11 X12 X13	1
X2	X21 X22 X23	0
X3	X31 X32 X33 739	0



Her XII. XI2 -- one nexter in 5 dim Here secured layer is work is a loop (untolding through time)



$$\begin{cases}
(x_1 \cdot w_1 + b_1) \\
0_1 = f(x_1 \cdot w_1 + b_1)
\end{cases}$$

$$\begin{cases}
(x_1 \cdot w_1 + b_1) \\
0_2 = f(x_1 \cdot w_1 + b_1) \\
(x_2 \cdot w_1 + b_2)
\end{cases}$$

$$\begin{cases}
(x_1 \cdot w_1 + b_1) \\
0_2 = f(x_1 \cdot w_1 + b_1)
\end{cases}$$

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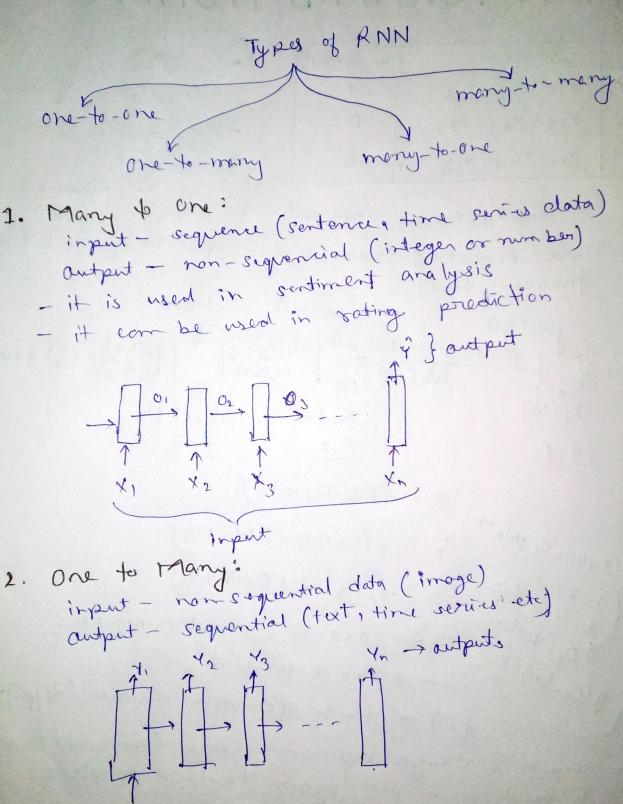
g(Otwo)=7 So signaid function

f() > tomb pectivation function (default)

in put is change but some layer (Recurrent layer) is wed again and again theme it is walled Recurred Memal returned

some neight is used again and again

TYPES OF RNN



tugni x

- it is used in image corptioning is music - other use east of this RIVA is music generation. 3. Many to Many. input - sequential data autput - sequential data -it is also called segreseq model type of Many to many RNM variable length Some length input seg + autput seg input seg = autput seg example: machine example: Pos togging translation. YI YE YS AYN (chatGPT), google A X1 X2 X3 toons late

Yi Y2 Y3 Y3

X1 X2 X3 49 it is also called encoder - this is not a type of RNH because input is also a non-sequential and autput is also a non-sequential 4. One to One: - example: image classification. (cot/dog classification) X->->Y

0

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