

Grand,
$$M = \begin{pmatrix} \alpha_{11} & \alpha_{12} \\ \alpha_{21} & \alpha_{22} \\ \alpha_{31} & \alpha_{32} \end{pmatrix}$$
. Now, we just need to find the matrix elements:

$$\begin{pmatrix} 1 \\ 0 \end{pmatrix} \begin{pmatrix} \alpha_{11} & \alpha_{12} \\ \alpha_{21} & \alpha_{22} \\ \alpha_{31} & \alpha_{32} \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \Rightarrow \begin{pmatrix} \alpha_{11} & \alpha_{12} \\ \alpha_{21} & \alpha_{22} \\ \alpha_{31} & \alpha_{32} \end{pmatrix} \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

So, $M = \begin{pmatrix} 1 & \alpha_{12} \\ 0 & \alpha_{22} \\ 0 & \alpha_{32} \end{pmatrix} * \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$

Cloudy burger weather burger weather burger weather burger as $\alpha_{32} = 0$.

So, the modrie for the NN is, $\alpha_{32} = 0$.

This NN books as follows.

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NOW, me look adish depending on what we cooked the day before. For instance, 8.2. Tuesday Wednesday Throsday Friday Startwoday Siend Monday Burger Chicleen Apple pie Berger Chicken Apple Apple pie Since this is a returning proten, we need to un recurring neural network. Instring dimention M*TI = 0 0 > 3×1 M > 3×3 Ig we just need to find IM Such that $M * \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \longrightarrow M * \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \longrightarrow M * \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} .$ In general, $M = \begin{pmatrix} a_{11} & a_{21} & a_{31} \\ a_{12} & a_{22} & a_{32} \\ a_{13} & a_{23} & a_{33} \end{pmatrix}$

03	. As	before,	he loo	K Applu	pile -> Bu	nger -> Ch	villen,
de	but if the weather is summer there is no Coolling for that eng and the dish from the previous day is served.						
	Monday	Tuesday 1	Westnesday	Thursday	Friday	Saturday	Sunday
	Applepie						9
	Sunny						
	Tusdey						
	Now, we have two imputs, i. We ather: Surmy and Cloudy (i) (i) and ii. Dish from Apple fie, Burger, and Chicken frevious day (i) (i) (i) (ii)						
toley	, la Wed	ther: S	Sunny (1)	and (21 rudy		and
tool for near	li. Dish f previous	m day	Apple fie	, Be	3)	and Chi	chen
given f	Create food and weather matrices for matrix operations						
mapping from &	100 00 100 101		101		wax wax keg	tell	reather is as a lid we today we tomorrow
\	food	2	weather		Enlatination	cel	(5)

- weather matrix (10) (1) = (1) Seem day

(10) (0) = (1) Seem day

(10) (0) = (1) Seem day

(10) April day tells in I me Seemy (0) Seemedry or Un Cooked from from the previous day hed to Cook today previous day food matrin give what is today's food and what is Hesterday's food weather matrix select from the food offerending nthe whent (today's) wenther. the weather is miny (?) O 1 0 | O | Apple bie - Sam food |
O 0 1 | O | Eusger (next food) - next food |
O 1 0 | Apple bie |
food matrix tron yesterday