MLP (P-4) (LLM notes) . 2 mosects Stop 2 (line~ 1) ,WT DE 5061m [125::] [5] - The first stop is multiplying The input by a matrix filled with model parameters (rarne) in training since the multiplications are multiplying Each vow in the metrix by the whole vector so think of epich rom as asking a garshish as first mane?

and this dot product multiplication is

and the dot product multiplication is

and if the vector answers that question

with a yes and so if not and the

answers that are stable to the second the · 22 if the vector answers the curstish antstite can be more templicable Like asking 2 aurstions in 121 22 = yr) and 5 1 = No case for bot a's to be ges the Ro.E Rolast name solder - Bies Ester - Very of her this stry requires adding $\begin{bmatrix} 365 \\ 7 \\ \vdots \\ 7 \end{bmatrix} \begin{bmatrix} 5 \\ 5 \\ 0 \end{bmatrix} = \begin{bmatrix} 1 \\ 5 \\ 0 \end{bmatrix}$ another vector to the output called the Bias which also has model porrameters This Bin normalizes the det product so Salif E encodes "Micheel" in the case of Ro. 1= 22 for yes the bias world from to have -las first element so · in our (air E dost incolo MJ
· Bias makes sure & 0 = NO That the result is 22: 900 =0 = No - Per number of Rows in the metrix a num of aurstin & skid is sok in GPt 3 which is 4x the dimention space of embadding A choosing a clean multiple for the dimention is hardware fread by you can think of Roin the last Ex as having wecker for Man) 5 horry the dot product it largest it & also has directionality in the M and J direction (which it last) so think-of

(An operation No.E = (M+J). E 65 once again Matrix has billians Scanned with CamScanner