MLP (P-7) (1/m nohr)

- Super position + Rreap

3

1

110

1

- in real LLM facts are not stored exactly as described in the post for pages, while the rows of the Matrix can be thought as ounations ie directions in embedding space, that helps get facts for context. and a neuron tells you how much a give Vector aligns with some direction and the columns of The socond matrix tell you what will be added to the visur if Nar moura is active. But indivisual neurons rarly represent de single clean frature ir a singly row of Mi dost vor always ask a litran single Divestise Lite it doss it our ex. rather multiple neurons come to gran. to stor a fact it ans a Aurstion. I) Michael Soudan it might take many vers to and of the X of the X

- This happers Theoretically by superposition

in short it allows to store ideas > dimentions in me had a basker ball divection but that I dimention can store other Closely related idea Like a sport will bally for cx. hence this can explain why LLM scale so will but are still hard to interprit, and the features in the NN mond have to come to gitter to form fachs not just one lit nearon (fig 2).

That specific combination of 68 neurons is a supprossition.