Vanishing gradients solved by LSTM. DET = E DEF X SHE SHI X DW 8 pt x 8 pt-1 3 pt. 3 pt - (K=i Shikt) DEF - DEF DYF DCF-1 DM DEF - DEF DYF DCF-1 DM DEF DEF DYF DCF-1 - DEL JOCK THE OCK SW Ct = ftxCt-1 + itx Ct this is the Key difforence. The is a function of 4 elements ft, Ct-1, it, čt

Whenon in RNN case it is a of previous States output fuction Tou can think that even though farction, Ct is a function of u elements, but in those elements it contains the Previous States output functions tes it contains but the diff is not our a elements are functions OF PREvious out puter Ct = ft x Ct-1 + it x Ct want postial desiratives w.r.t Ct-1 Toct-1 Schol tyt x cf

DCF-1 DCF-1 + DCF-1 + DCF-1 + DCF-1 OCF1X(EF) + Dy X(ZF) + DCF X(YF) Even though the others can be a still theore one ft clement with solve the problem of vanishing gradient.