Neural Language Models  $P(\overline{w}) = P(w_1)P(w_2|w_1) - P(w_n|w_1 ... w_{n-1})$ model with a neural net Very basic neural LM:  $P(w_i|w_{i-1}) = \frac{e^{V_i - C_{i-1}}}{\sum e^{V_w - C_{i-1}}}$ Skip-gram  $w' \in V$ More generally: P(w; | w, ... w; .) = softmax (u, -f(w, ... w; .)) f: neural net to embed the context f is a DAN? Ignores order! matmul

NN sus DAN?

FINN?

Fis a FFNN?

I saw the day Mail + Unline (2002) I saw the day Maih + Histor (2003)