Bi-Directional RNN Page 1 Purpose: Take confirmations from both Earlier und laler in the sequence. Example: He sail, "Tudy bears are on sale!" He Said, "Teddy Roosevelt was a great Prince! At time t = 3, Teddy Person
Avimal. we need to look ahead

(RNN GRU LSTIM)

y,

y2

y3

h3

h4

h5

h6

1 Said Teddy bears are on Sale

Proge 2 Bidirectional RNN (BRNN Consider a 4-time step sequence h₂ h₃ h₄ h₄ Acyclic greph Forward n/w and a backward n/w NN will retilize both the formal and backword activations. $\hat{y}_{t} = g(W_{y}(\hat{h}_{t}, \hat{h}_{t}) + h_{y})$ Prediction at time = tz forward propagation from X, and Xz Curvatinput from X3, n and backund propriention from X4.
The whole pull is highlighted in Red.

Kage S He said (Teddy) Roosevall Prediction.

BRNN -> can be used with LSTM, GRE

weed for NLP to to or ots ? predict at t= ts, two possibilities Need entire series of duta e.g. Speech recognition Connot be used to real-time apps.