

Date: \_\_\_/\_\_\_/\_\_\_



## Encoder and Decoder

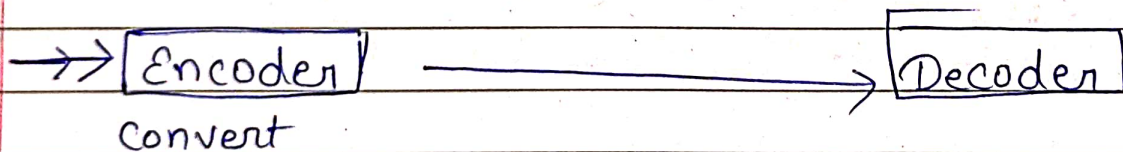
- 1) Simple RNN  $\rightarrow$  Vanishing Gradient Problem
  - 2) LSTM RNN
  - 3) GRU RNN
  - 4) Bidirectional RNN
- } Long Shot Term Memory

These all are sequence to sequence data RNN

\* Input = Sequence

\* Output = Sequence

### Simple working of Encoder Decoder



words to = Content  
array of ND vector

The decoder generates the output word by word and keep feeding the previous word into the decoder again.

Use case

- 1) Language Translation
- 2) Text Generation
- 3) Text Suggestion

