Recurrent Neural Networks

Why sequence models?

deeplearning.ai

Examples of sequence data

Speech recognition x → "The quick brown fox jumped over the lazy dog." y
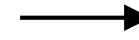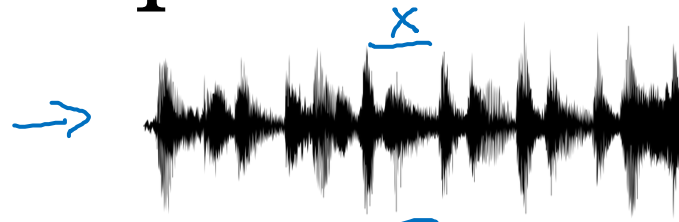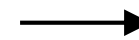
Music generation $\emptyset$ →
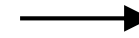
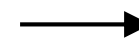Sentiment classification → "There is nothing to like in this movie." → ★☆☆☆☆

DNA sequence analysis → AGCCCCTGTGAGGAACTAG → AGCCCCTGTGAGGAACTAG

Machine translation → Voulez-vous chanter avec moi? → Do you want to sing with me?

Video activity recognition → Running

Name entity recognition → Yesterday, Harry Potter met Hermione Granger. → Yesterday, Harry Potter met Hermione Granger.

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