ANLY-580
Natural Language Processing

Neural Network Architectures for Sequences: Part II

Fall 2021
Lecture 09
Instructor: Chris Larson

Oct 21, 2021

Lesson plan

- Review: Assignment 2
- Lecture (90 min):
  - Lecture 08 recap
    - Convolutions
    - Recurrent connections
  - Autoregressive modeling with RNNs
    - Encoder-decoder models
    - Neural machine translation (NMT)
    - The *inference gap, decoherence, and the information bottleneck*
  - Self attention
  - Transformers
- Lab (60 min):
  - Finetune BERT base on DBpedia14