Quebec
Artificial
Intelligence
Institute

Mila

Recurrent Neural Networks Tutorial

Mirko Bronzi
Applied Research Scientist, Mila
mirko.bronzi@mila.quebec

RNN Tutorial

- Task#1: solve a toy experiment using recurrent architectures (using a simple RNN and an LSTM).
- Goals:
  - get familiar with RNN and LSTM APIs (in PyTorch).
  - see how to shape/prepare data based on sequences.
  - analyse and compare the results.

- Task#2: train a model for text generation based on Language Modeling.
- Goal: get exposed to a key task in the current state of the art NLP systems.

- Keywords:
  - Data transformation, building/training/testing RNNs vs LSTMs, language modeling, text generation

Mila