Department of Computing

Imperial College of Science, Technology and Medicine

example

example description

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Contents

1 Pytorch

Pytorch will be used for the coursework, recommended is to look at this link.

2 Books

Recommended NLP Books:

- Speech and Language Processing. Dan Jurafsky and James H. Martin [6]
- A Primer on Neural Network Models for Natural Language Processing. Yoav Goldberg [4]
- Natural Language Processing. Jacob Eisenstein [3]

Recommended ML Books:

- Artificial Intelligence: a Modern Approach. (2009) Stuart Russell & Peter Norvig [8] with the solutions available at [9]
- Machine Learning. (1997) Tom Mitchell [7]
- Neural Networks and Deep Learning. Michael A. Nielsen.
- Introduction to Deep Learning. Eugene Charniak [2]
- Deep Learning by Ian Goodfellow [5]

State of the art NLP:

- Papers with code: [1]
- track the progress in Natural Language Processing: [10]

References

[1] "Browse State-of-the-Art". In: (). URL: https://paperswithcode.com/sota.

[2] Eugene Charniak. *Introduction to Deep Learning*. 2019.

[3] Jacob Eisenstein. *Natural Language Processing*. 2018. URL: https://github.com/jacobeisenstein/gt-nlp-class/blob/master/notes/eisenstein-nlp-notes.pdf.

[4] Yoav Goldberg. *A Primer on Neural Network Models for Natural Language Processing*. 2015. URL: https://u.cs.biu.ac.il/~yogo/nnlp.pdf.

[5] Ian Goodfellow, Yoshua Bengio, and Aaron Courville. *Deep Learning*. http://www.deeplearningbook.org. MIT Press, 2016.

[6] Dan Jurafsky and James H. Martin. *Speech and Language Processing*. 2023. URL: https://web.stanford.edu/~jurafsky/slp3/.

[7] Tom Mitchell. *Machine Learning*. 1997. URL: https://www.cs.cmu.edu/~tom/mlbook.html.

[8] Stuart Russell and Peter Norvig. *Artificial Intelligence: A Modern Approach (Pearson Series in Artifical Intelligence)*. 2020.

[9] Stuart Russell and Peter Norvig. "Artificial Intelligence: A Modern Approach, 4th US ed. ANSWERS". In: (). URL: http://aima.cs.berkeley.edu/.

[10] "Track the progress in Natural Language Processing". In: (). URL: https://github.com/sebastianruder/NLP-progress.