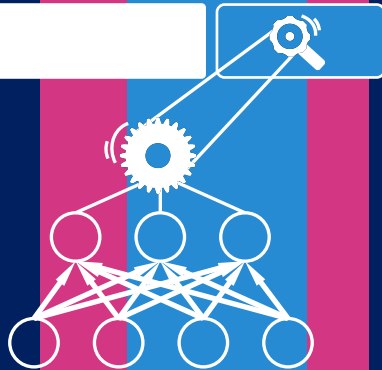


Neural Networks for Information Retrieval

nn4ir



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Who are we?



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Aims

Describe the use of neural network based methods in information retrieval

Compare architectures

Summarize where the field is, what seems to work, what seems to fail

Provide an overview of **applications and directions** for future development of neural methods in information retrieval

Structure of the tutorial

Morning

1. Preliminaries
2. Modeling user behavior
3. Semantic matching
4. Learning to rank

Afternoon

5. Entities
6. Generating responses
7. Recommender systems
8. Industry insights
9. Q & A

Materials

Slides available at <http://nn4ir.com/wsdm2018>

Bibliography available at <http://nn4ir.com/wsdm2018>

Survey 1 An introduction to neural information retrieval [Mittra and Craswell, 2017]

Survey 2 Neural information retrieval: at the end of the early years [Onal et al., 2017]

Outline

Morning program

- Preliminaries
- Modeling user behavior
- Semantic matching
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Afternoon program

- Entities
- Generating responses
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- Industry insights
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