Auto Data Preparation

Auto Parameter Tuning

Auto Model Selection

Automatic Machine Learning

Data Preparation

- Vocabulary
- Stem, Lowercase
- Frequency filter

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Model Construction

- Representationfocused model
- Interactionfocused model

Training and Testing

- Objective functions:
 - √ regression
 - ✓ classification
 - ✓ ranking
- Metrics: MAP, NDCG ...

Extended Keras Library

Basic Keras Operators:

- ✓ Convolution NN layer
- ✓ Recurrent NN layer
- **√**

Extended MatchZoo Operators:

- ✓ 2DGRU layer, crossing matching
- ✓ Attention layer
- **√**