

713/424 Q4 Pattern Recognition

<https://arxiv.org/pdf/2107.03844.pdf>

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What is punctuation restoration?

Your answer

What is a light stemmer?

Your answer



What is recursive suffix stripping?

Your answer

How does a feed forward neural network work?

Your answer

How does the margin infused relaxed algorithm work?

Your answer

How does the maximum entropy algorithm work?

Your answer

How does the Bangla-English MT (machine translation) system work using a rule-based model?

Your answer

How does an example based MT system work using WordNet?

Your answer



How does an active learning-based SMT (statistical machine translation) work?

Your answer

What deep learning algorithms can be used for emotion classification from Bangla YouTube comments?

Your answer

How can character-level n-gram based approaches be used in news categorization?

Your answer

Name four variants of the monolingual language model.

Your answer

How does the masked language (MLM) model work?

Your answer

How does the next sentence prediction (NSP) model work?

Your answer



How is the multilingual variant of BERT (mBERT) trained?

Your answer

How is RoBERTa better than BERT?

Your answer

How is the ELECTRA model trained?

Your answer

Name 4 types of text classification problems

Your answer

What toolkit can be used for tokenization?

Your answer

What is the subword-nmt toolkit used for?

Your answer



What is the fairseq preprocessing script used for?

Your answer

How does the Adam optimization algorithm work

Your answer

The results for POS tagging reveal that the XLM-RoBERTa model shows higher performance, why?

Your answer

For results in NER, explain how different types of input affected the performance of the models used.

Your answer

For results in each punctuation category in punctuation restoration, explain how the models performed briefly.

Your answer

What were the problems faced by the transformer based models in machine translation (MT)?

Your answer



For results in emotion classification, compare and contrast the performances of XLM-RoBERTa, DistilBERT-m and Indic-RoBERTa models.

Your answer

How was the KNN classifier in the news categorization task trained?

Your answer

Which type of models (and also name them) were better suited in news categorization according to the results obtained in the news categorization task?

Your answer

What are some of the major challenges that are limiting further research in BNLP?

Your answer

What is the impact of tokenization and subword embedding on the XLM-RoBERTa model in terms of vocabulary size?

Your answer

How is the XLM-RoBERTa tokenizer better than the BERT tokenizer?

Your answer



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