

# 713/424 Q3

<https://arxiv.org/pdf/2105.14875.pdf>

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\* Required

Student ID Number \*

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Official Full Name in proper case \*

Your answer

Difference between NLU and NLG

Your answer

What is the verb based method used for in NLP?

Your answer

What is Brill's Tagger used for in NLP?

Your answer



What is the Heuristic approach used for?

Your answer

What is the score based clustering algorithm used for?

Your answer

What machine learning approach has been used for obtaining textual information from pictures?

Your answer

Bangla-English code-mixed language examples can be modeled using 3 use cases. Name them.

Your answer

What is Hough transform used for in character recognition for Bangla scripts?

Your answer

What approach can be used to recognize Bangla characters on a printed form?

Your answer



What approach can be used in detecting Bangla numerical digit recognition?

Your answer

What is the procedure to develop a Bangla machine translation dictionary?

Your answer

Name the three stages that can be used in a Name Entity (NE) detection process for the Bangla language.

Your answer

How does a neural network work when used in a name entity recognition model?

Your answer

How can Kimmo Koskenniemi's two-level morphology technique be used for parsing Bangla words?

Your answer

How can a CFG be implemented to parse assertive, interrogative, imperative, exclamatory, and optative categories of Bangla sentences?

Your answer



How can agglutinative suffix stripping and minimum edit distance using a suffix list be used for parsing Bangla words?

Your answer

How does layered tagging in the POS (Parts of Speech) tagging system of the Bangla language work?

Your answer

How can a tag vector be used in a rule-based morphological analyser for Bangla parts of speech tagging?

Your answer

Write down the 4 phases of developing an unsupervised POS tagger for the Bangla language using the Baum-welch algorithm and HMM (Hidden Markov Model).

Your answer

How can hash tables be used to develop an automated Bangla POS tagging dictionary?

Your answer



How can stochastic gradient descent be used to classify Bangla question-answer types?

Your answer

Given a dataset of Bangla and romanized Bangla texts collected from social media, write down possible pre-processing steps and two methodologies for sentiment analysis.

Your answer

How can multinomial naive Bayes be used to detect spam from malicious Bangla text?

Your answer

Name some linguistic features that can be used to classify Bangla news as fake.

Your answer

Why do we need to normalise raw text data?

Your answer

How can text summarisation be carried out using an extractive approach?

Your answer



What is the use of the apriori algorithm?

Your answer

How can naive Bayes and KNN be used for word sense disambiguation?

Your answer

Write down the steps for a basic system architecture Speech Processing and Recognition system.

Your answer

Write down briefly the part played by LPC and ANN in Bangla speech recognition.

Your answer

Write down the roles of CMU Sphinx and Android Text-to-Speech API in recognition of isolated and continuous speech in Bangla language.

Your answer

Write down, briefly, how RNN can be used in BLNP.

Your answer



Write down, briefly, how DNN can be used in BLNP.

Your answer

Write down how CNN can be used for obtaining noise-free numeral speech recognition.

Your answer

Write down how LPC and ANN aids in speech signal processing and recognition.

Your answer

List 3 classical methods for speech processing

Your answer

What is CRF and which class it belongs to ?

Your answer

What is Transfer Learning ?

Your answer



Explain Ensemble Learning

Your answer

What is Random Forest

Your answer

Please discuss weakness of the paper, what didn't it do satisfactorily?

Your answer

Propose a follow up research paper

Your answer

URL to ONE similar survey paper related to the course

Your answer

List URL to 5 papers which discusses GAN applied to NLP

Your answer

A copy of your responses will be emailed to [shadab.iqbal@g.bracu.ac.bd](mailto:shadab.iqbal@g.bracu.ac.bd).





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