



MCQS - MCQS

Natural Language Processing (SRM Institute of Science and Technology)



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_____ POS tagger uses probabilities.

- a. Rule based
- b. Stochastic
- c. Procedure based
- d. Object based

ANS B

Which tagger uses probabilistic and statistical information to assign tags to words?

- a. Rule based
- b. Stochastic tagger
- c. Statistical Tagger
- d. POS tagger

ANS B

Stochastic tagger also known as

- a. HM tagger
- b. RMM tagger
- c. HMM tagger
- d. Super tagger

ANS C

To automat HR recruitment process which type of NLP application will be suitable?

- a. Question Answering System
- b. Machine Translation
- c. Sentiment Analysis
- d. NER

ANS A

For a given token, its input representation is the sum of embedding from the token, segment and position embedding

- a. ELMo
- b. GPT
- c. BERT
- d. ULMFit

ANS C

It uses statistical methods to resolve some of the difficulties in symbolic approach. It does this by harnessing various mathematical techniques and often using large text corpora to develop approximately generalized models of linguistic phenomena based on actual examples.

- a. Convolution Neural Networks
- b. Rule based Approach
- c. Corpus based.
- d. Statistical Approach

How does the state of the process is described in HMM?

- a. Literal
- b. Single random variable
- c. Single discrete random variable
- d. Literal and Single random variable

ANS C

In Text Summarization, find the most informative sentences in a

- a. Video
- b. Image
- c. Sound

- d. Document

ANS D

Which of the following measurements are used to evaluate the quality of entity recognition?

- a. Recision
- b. Recall
- c. Measure
- d. R-measure

ANS B

Which data is used to use supervised approach for Machine translation

- a. Plain text
- b. Labeled text
- c. Dictionary
- d. Vectors

ANS B

A bag of words model uses

- a. A vocabulary of known words and A measure of the presence of known words
- b. A vocabulary of text and sentences
- c. A vocabulary of meaningful sentences
- d. A measure of text and sentences

ANS A

Summarization creates new phrases paraphrasing the original source.

- a. Extraction-based
- b. Abstraction-based

- c. Auto-correct
- d. Procedure based

ANS B

In NLP, Bidirectional context is supported by which of the following embedding

- a. Word2Vec
- b. BERT
- c. GloVe
- d. ULMFit

ANS B

A frequently used statistical model in NLP

- a. Stochastic
- b. Hybrid
- c. HMM
- d. Linguistic

ANS C

HMM are designed to model the joint distribution $P(H, O)$, where H is the _____ state and O is the _____ state

- a. Hidden, Observed
- b. Unobservable, Hidden
- c. Classified, Completed
- d. Open, Completed

Which extracts all the documents containing the key words

- a. Information Extraction
- b. Information Retrieval

- c. Inflection
- d. Inflation

ANS A

Find which is based on the analysis of large volumes of bilingual text

- a. Rules Based Machine Translation
- b. Statistical Machine Translation
- c. Hybrid Machine Translation
- d. Neural Machine Translation

Which of the following doesn't require application of natural language processing algorithm

- a. Classifying spam emails from good ones
- b. classifying image of scanned document as handwritten
- c. Automatically generating captions for images
- d. building a sentiment analyzer for tweets on twitter

ANS A

Which algorithm is used for solving temporal probabilistic reasoning?

- a. Hill-climbing search
- b. Hidden markov model
- c. Depth-first search
- d. Breadth-first search

ANS B

In text summarization, _____ uses different words to describe the contents of the document.

- a. Abstract

- b. Extract
- c. Information
- d. Prose

ANS A

Which of the process of identifying people, an organization from a given sentence and a paragraph is called as

- a) Stemming
- b) Lemmatization
- c) Stop word removal
- d) Named entity recognition

ANS D

What are the input and output of an NLP system?

- a) Speech and noise
- b) Speech and Written Text
- c) Noise and Written Text
- d) Noise and value

ANS B

What is machine translation?

- a) Converts one human language into another
- b) Converts one human language into machine language
- c) Converts one human language into English
- d) Converts one machine language into human language

ANS A

HMMs are “a statistical Markov model in which the system being modeled is assumed to be a _____ process with _____ states”.

- a) Convolution, completed
- b) Markov, Unobservable
- c) Analyzing, Categorized
- d) Complete, Observed

ANS B

Which creates problems in machine translation?

- a) Different Level Of Ambiguities
- b) Processing Power
- c) Memory
- d) Diversity

The standard approach to information retrieval system evaluation involves around the notion of

- a) Quantity of documents in the collection
- b) Relevant and non relevant documents.
- c) Accuracy
- d) User happiness

ANS B

In this technique, content is extracted from the original data, but the extracted content is not modified in any way

- a) Extraction-based summarization
- b) Abstraction-based summarization
- c) Aided summarization
- d) Key phrase extraction

Which of the below are NLP use cases?

- a) Detecting Objects From An Image
- b) Facial Recognition
- c) Speech Biometric
- d) Text Summarization

ANS D

Which of the following includes major tasks of NLP?

- a) Automatic Summarization
- b) Discourse Analysis
- c) Machine Translation
- d) Automatic Summarization & Discourse Analysis& Machine Translation

ANS D

Which application use to determine people in context?

- a) Stemming
- b) Lemmatization
- c) Stop word removal
- d) Named entity recognition

ANS D

In NLP, Context modeling is supported with which one of the following word embeddings

- a) Word2Vec
- b) GloVe
- c) BERT
- d) ELMo

ANS C

In an HMM, observation likelihoods measure

- a) The likelihood of a POS tag given a word
- b) The likelihood of a POS tag given the preceding tag
- c) The likelihood of a word given a POS tag
- d) The likelihood of a POS tag given two preceding tags

ANS C

Same word can have multiple word embeddings possible with _____?

- a) GloVe
 - b) Word2Vec
 - c) ELMo
 - d) nltk
- ANS C

Trains two independent LSTM language model left to right and right to left and shallowly concatenates them.

- a) GPT
- b) BERT
- c) ULMFit
- d) ELMo

ANS D

Modern NLP Algorithms Are Based On

- a) Neural language processing
- b) Machine learning
- c) Artificial intelligence

- d) Machine translation

ANS B

Polysemy is defined as the coexistence of multiple meanings for a word or phrase in a text object. Which of the following models is likely the best choice to correct this problem?

- a) Random Forest Classifier
- b) Convolutional Neural Networks
- c) Gradient Boosting
- d) Keyword Hashing

ANS B

Which application use to determine people in context?

- a) Stemming
- b) Lemmatization
- c) Stop word removal
- d) Named entity recognition

ANS D

Which of the following model is used for speech recognition?

- a) Lemmatization Model
- b) Hidden Markov Model
- c) Finite State Transducers Model
- d) Grammar Model

Which one of the following is TRUE about CRF (Conditional Random Field) and HMM (Hidden Markov Model)?

- a) CRF is generative model and HMM is discriminative model
- b) Both CRF and HMM are generative model

- c) CRF is discriminative model and HMM is generative model
- d) Both CRF and HMM are discriminative model

ANS A

Bag of Words in text preprocessing is a

- a) Feature scaling technique
- b) Feature extraction technique
- c) Feature selection technique
- d) Feature abstraction technique

ANS B