NLP

Part 1: Multiple Choice Questions

1.1: In the context of NLP, what does tokenization involve?

a) Converting text into binary format
b) Splitting text into sentences
c) Splitting text into words or subwords
d) Assigning tags to words

1.2: What is the main advantage of Convolutional Neural Networks (CNNs) over Fully Connected Neural Networks in image analysis tasks?

a) They require less computational resources
b) They are easier to train
c) They can capture spatial information
d) They can process images of varying sizes

Part 1: Multiple Choice Questions

Natural Language Processing

1.3: What is "Stemming" in NLP?

a) Process of converting speech into text
b) Process of reducing words to their root or base form
c) Process of understanding the sentiment of a sentence
d) Process of converting text into speech

1.4: What is "Word Embedding" in NLP?

a) Encoding words or phrases as numerical vectors

b) Embedding text in an application

c) Inserting words in a sentence

d) Translating words into another language

1.5: What is "Latent Dirichlet Allocation (LDA)" used for in NLP?

a) Translation between languages
b) Text generation
c) Sentiment Analysis
d) Topic Modeling

1.6: What is a "Stop Word" in the context of NLP?

a) A word that is stopped from being translated

b) A word that is to be ignored in text analysis

c) A word that stops a program from running

d) A word that a user has decided to stop using