
LIST OF TERMS

| Terms | Definition |
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| Automatic Short Answer Scoring (ASAS) | A system designed to automatically assess short answer questions to assist teachers in scoring faster and more objectively |
| Word Embedding | A process of representing individual words as numerical vectors in a multidimensional space, focusing on the relational meaning between words |
| Sentence Embedding | A technique used to represent entire sentences as numerical vectors, capturing their semantic meaning in context |
| Mean Absolute Error (MAE) | A metric used to measure the average absolute error between predicted values and actual values, indicating the accuracy of a model. |
| Correlation Coefficient | A statistical measure that describes the strength and direction of the relationship between two variables. |
| Cosine Similarity | A measure used to determine the similarity between two vectors by calculating the cosine of the angle between them. |
| BERT Encoder (Bidirectional Representations from Transformers) | A deep learning model designed to understand the context of words in a sentence by considering the surrounding words. |
| InferSent | A sentence embedding model that uses bidirectional LSTM with max-pooling to generate sentence representations based on semantic meaning. |
| Skip-Thought | A deep learning model that generates sentence representations by predicting the preceding and following sentences using RNN architecture. |
| FastText | A word embedding model developed by Facebook AI Research that emphasizes sub-word or morpheme representation to handle rare or unknown words. |
| Continuous Bag of Words (CBOW) | An architecture in Word2Vec that predicts a word based on its surrounding words. |
| Skip Gram | An architecture in Word2Vec that predicts surrounding words based on a single word. |
| Preprocessing | The process of cleaning and preparing text data for analysis by removing empty entries, converting text to lowercase, removing numbers, and deleting punctuation marks. |