
LIST OF TERMS

Terms	Definition
X	A social media platform (formerly known as Twitter) used for communication.
Hate Speech	A statement that attacks or denounces an individual or group based on a particular identity, such as race, religion, or gender.
Sentiment Analysis	The process of computationally identifying and categorizing opinions expressed in a piece of text, especially in order to determine the writer's attitude toward a particular topic.
Multilabel	A classification task where each instance can have multiple labels simultaneously, often used in scenarios with overlapping categories, such as tagging images or identifying multiple sentiments in text.
Machine Learning	A branch of artificial intelligence that involves the use of algorithms and statistical models to enable computers to improve their performance on a task through experience.
Deep Learning	A subset of machine learning that utilizes neural networks with multiple layers to model complex patterns in data is known as deep learning. It is commonly applied to tasks such as image recognition, natural language processing, and speech recognition.
Naïve Bayes	A classification method that applies Bayes' Theorem, assuming that the predictors are independent of each other.
SVM	A supervised machine learning algorithm that can be used for both classification and regression tasks. It classifies data by identifying the hyperplane that best separates the dataset into different classes.
BERT	A powerful language model that captures bidirectional context in text using a transformer-based architecture, excelling in tasks like text classification, question answering, and language understanding.
RNN	A type of artificial neural network where connections between nodes can create a cycle, allowing information to persist and making it suitable for sequential data like text.
LSTM	A type of recurrent neural network (RNN) architecture designed to learn long-term dependencies is called Long Short-Term Memory (LSTM).
BiLSTM	An enhancement of LSTM that processes data in both forward and backward directions, improving context understanding in sequential data.

Terms	Definition
CNN	A neural network architecture that excels in identifying patterns in data, especially in tasks involving spatial hierarchies, such as image recognition and text classification through local feature extraction.