

Research Proposal

Artificial Intelligence - Natural Language Processing

Natural language processing (NLP) is one of the subfield of artificial intelligence deals with the interactions between computers and human natural languages. We have to write programs to make computers understand to process and analyze large amounts of natural language data. Challenges in natural language processing frequently involve speech recognition, natural language understanding, and natural language generation. NLP is mainly used in Chat bots. Nowadays many websites and applications use NLP to create chat bots and make live conversations with customers and users. Language translation is still a major difficulty for many people who need to interact with other language people. With the support of NLP, we can increase the translation accuracy percentage using large sets of datasets. Speech recognizing is difficult than text recognizing in understanding and recognizing a new language. For every person the pronunciation differs, so it will be difficult for the system to recognize each word spoken by different users. So, we have to train the system with large sets of data sets to understand and recognize all the words. Dynamic programming method is used to efficiently tag a piece of text. It will be synchronized with parts of speech so that the major elements or keywords of the sentences will be identified to produce a good reply to the user.