Project Initial Commit:

Finding resources and research about the lexical ambiguity & NLP applications

Questions to be asked:

→ Is there any different approach for dealing lexical Ambiguity?

→ How the words are exactly predicted in NLP Applications?

→ How can we improve the probability of word prediction?

→ How can a Model be developed for this?

Work done so far:

→ Initialized problem statement & started working on IEEE papers, completed working on Research Paper

Current work in progress

Started gathering of information about different algorithms that can be applied on corpora as Most

of the Research paper has implemented only Word Sense Disambiguation in different Context

future Course of Action

-> we have to gather information about an a that can be implemented

- understand & implement the algorithm on a larg Corpora

Literature Survey

Title	Limitations
using linear Mixed-Effects Models to Resolve Ambig -uity	It depends on Re usage of not Read C then it differs in anal the words where diff are used instead of Co word.
Resolving Tensorflow lexical Ambiguity in Tensor Regression Models of learning.	. In this the Robust R -ssion Model Rejects th hypothesis that it pr Methodology

→ Automatic detection & Reso -lution of lexical Ambiguity

It is limited only to Some concepts like Co -ction, the transfer to other conceptual Models user evaluation. It doe Assume a great quality like the current techniq Cannot be easily turned into other modules

→ Brain Mechanism of Ambiguity Resolution

In this literature only the precise location of these activations are highly variable There is No Evidence for cognitive Mechanism being involved in the Brain Regions to link & Resolve lexical Ambiguity

→ Applications of NLP & Ambiguity problem

word Sense Disambiguation is used It works fine with the primary application of NLP But NO Evidence for deeper insights like vast amount of unstruct -ured data filtering, analyzing, Extraction, train

→ LSTM Models & lexical ambiguity

when using this model without linking the double objective process the model the predictive state are ob -ained without observing the Requested target output. Hence it Becomes hard in Recovering the word. Even more worst Results are obtained if forget to link this with another concep

→ Represent lexical Ambiguity in prototype Models of lexical Semantics

The dataset used should Mostly contain homonyms inorder to follow this Technique the Rest of the homographs & homophones have no clarity in clearing the lexical ambiguity

Workdone so far

Literature Review for all the papers Related to dealing with lexical ambiguity.

understanding the previous approaches in the paper

Learning about the algorithm used in previous paper

Current work in progress

Searching for the Suitable algorithm that Best deals with deeper insights in NLP applications

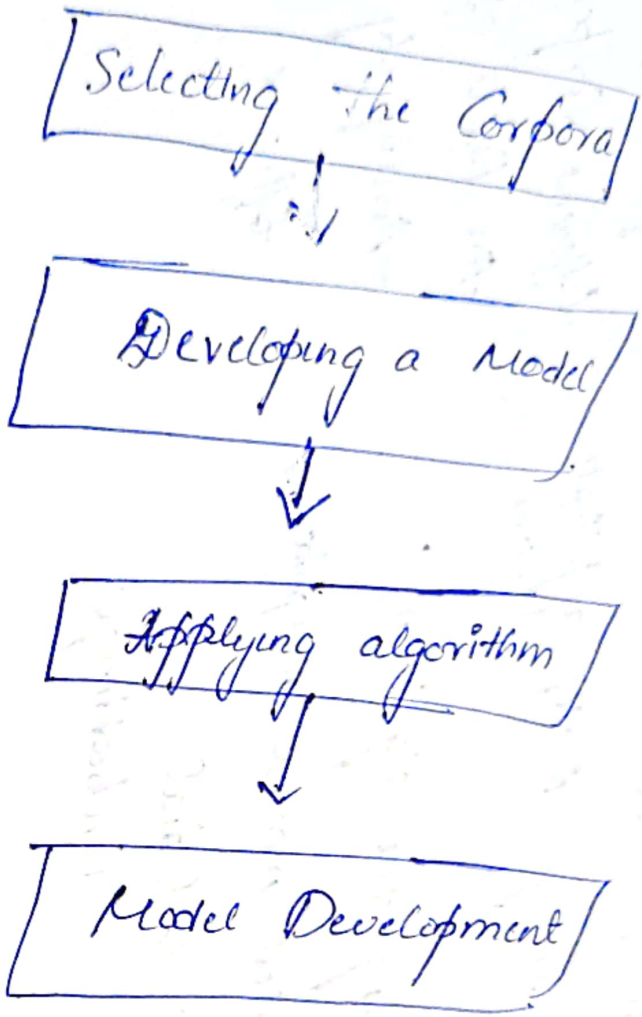
→ Learning the algorithm.

Simplest-nearest Neighbour with Contextual Embeddings

future actions

Implementing this algorithm on large set of data i.e different Corpora & find the Result of the lexical Ambiguity if it works effective.

Work flow



19/20

S. Vijaya Lakshmi

Lexical Ambiguity & NLP applications

project

Diary

Student

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G11. Nageswar Kumar

Overview.

This is a Machine learning based application Developed in python language. The intention of this project is to Reduce the Ambiguity in the Sentence & to Know the importance of NLP application

Requirements

-> Anaconda 3

phase	work done so far	guide/Mentor signature
5/8/21	selected the issues and problems in amliguity.	
8/21	we was Trying to gather the Require-ments	S.Sujaya Devi 11/8/21

17/8/21 — we gathered the Requirements of the proje

24/8/21 — Installing the Required Software

30/8/21 — Started to gather the Required Corpus

Sujay

7/9/21. — Continued to Research on corpus for inputs/outputs prediction.

9/9/21 to 16/9/21 — we are Trying to develop the code so that we can develop the application & some of the functionalities.

S. Vijaya Kaesl

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