

School of Computer Science Engineering and Technology

Course- B. Tech
Course Code- CSET346

Year- 2022
Date: 27-09-2022

Type- Elective
Course Name: Natural language
processing
Semester- odd
Batch- ALL

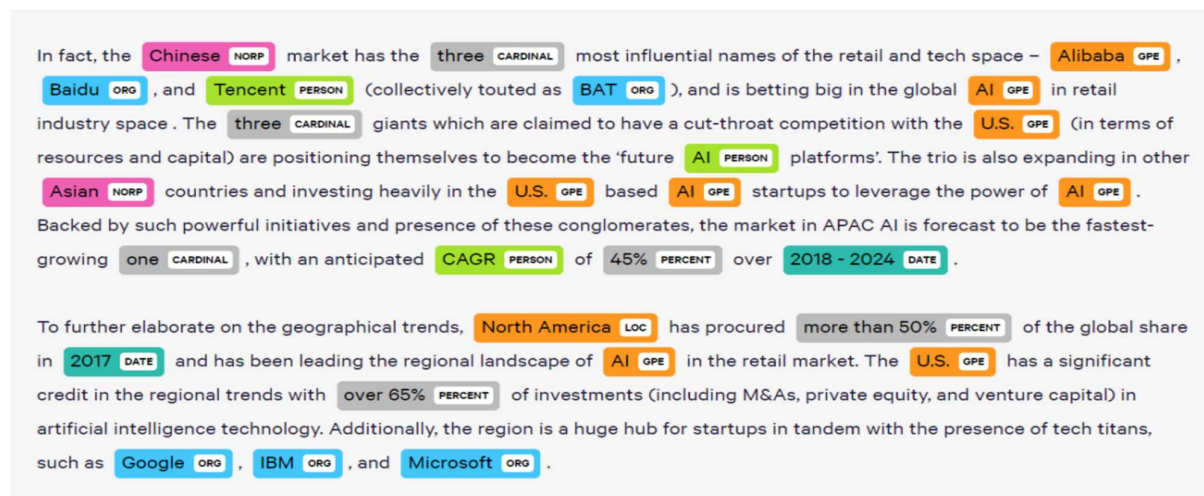
Lab Assignment 07 – Named Entity Recognition

CO-Mapping

Exp. No.	Name	CO1	CO2	CO3
07	Named Entity Recognition	✓	✓	✓

Objective: The main motivation is to apply NER concept to real life scenario and to understand.

NER is an information extraction technique to identify and classify named entities in text. These entities can be pre-defined and generic like location names, organizations, time and etc, or they can be very specific like the example with the resume. NER has a wide variety of use cases in the business. Gmail is applying NER when you are writing an email and you mention a time in your email or attaching a file, gmail offers to set a calendar notification or remind you to attach the file in case you are sending the email without an attachment. Other applications of NER include: extracting important named entities from legal, financial, and medical documents, classifying content for news providers, improving the search algorithms, and etc.



Task 1- Create a neural network with 4 input node, 3 hidden node, 4 output nodes. Train it and test it from scratch without using any deep learning library. Create function for forward pass and backward pass using Jacobian matrix.

Task 2 – In second task you are supposed to create a named entity recognizer for the given dataset using window based neural network.