ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALUR

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Add-On course - for 8ᵗʰ Semester

Natural Language Processing (NLP) Simplified
Duration: 06/06/2022 – 10/06/2022 (30 hours)

Syllabus:

Module 1:

Introduction :Overview .What Is Natural Language Processing .Origins of NLP .Language and Knowledge .The Challenges of NLP . How Does NLP Fit Into the AI World?NLP: Game changers in our daily life, examples for Businesses. Widely used areas of NLPs. Components of NLP

Module 2:

Linguistics , Syntactic & Semantic Analysis , Lexical Ambiguity, Referential Ambiguity. Steps involved while performing NLP tasks. Parsing

Module 3:

Widely used NLP Libraries : Getting Started With Python's NLTK ,Tokenizing, Filtering Stop Words,Stemming,Tagging Parts of Speech,Lemmatizing,Chunking,Chinking .Using Named Entity Recognition (NER),Getting Text to Analyze, Bag of Words, StyleCloud, Term Frequency–Inverse Document Frequency (TF-IDF) . Visualization

Text Books:

1. Natural Language Processing with Python - Written by Steven Bird, Ewan Klein and Edward Loper. O'Reilly.
2. Natural Language Processing: Python and NLTK Learning Path - Written by Nitin

Websites:

nltk.org
pythonspot.com
pythonprogramming.net
towardsdatascience.com
udemy.com

Approved

02/06/2022

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