



**J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS)**

(Accredited by NBA&NAAC, Approved by AICTE & Permanently Affiliated to JNTUH Hyderabad
Yenkapally (Vi), Moinabad (M). P.O. Himayat Nagar, RR District, Hyderabad 500075)

Department of Electronics and Computer Engineering



Add on Program on

**NATURAL LANGUAGE PROCESSING
Report**

Module Number: 2

**Key Topics Covered: Text Preprocessing, Feature Extraction NLP with
Machine Learning**

Text Pre-processing

Tokenization (word, sentence)

Normalization: lowercase, punctuation removal

Stop word removal

Hands-on with NLTK

Resource Person(s): Mrs.K.Pooja and Mr.M.Syam Babu

Date and Time of Session: 24.10.2025 and 1.30pm to 3.30pm

Duration: 2h

Mode of Delivery: Face to Face and Power point presentation

Target Audience: 2nd and 3rd year students

Number of Participants: 52

Venue: A-403

Objectives of the Course Module:

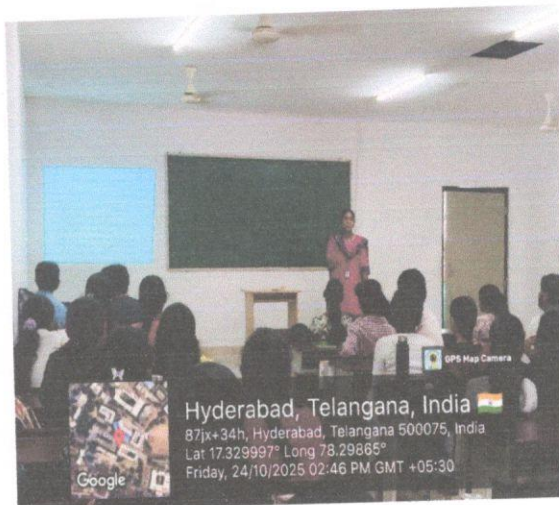
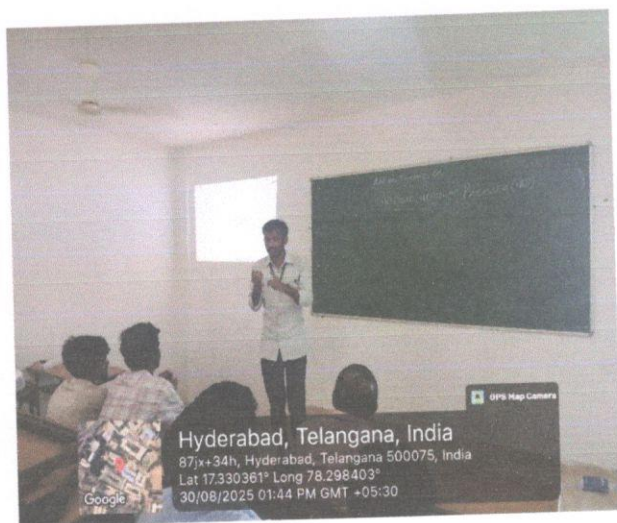
- To make human-computer communication more intuitive and efficient by allowing computers to understand and process language in its natural form.
- To develop machines that can comprehend and react to spoken and written text, accounting for complexities like slang, accents, and grammar.
- To enable computers to produce coherent, contextually appropriate, and useful text or speech in response to human input.



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Expected Learning Outcomes of the Module:

By the end of the module, students could:

- The ultimate goal is to enable computers to understand and process human language as effectively as humans do.
- Tokenization is the process of breaking text into smaller units called tokens
- NLTK (Natural Language Toolkit) is a popular Python library for NLP tasks.
- NLP provides valuable insights from text and speech data, making interactions with technology more intuitive and efficient.

Summary:

Natural language processing (NLP) is a subfield of computer science and artificial intelligence (AI) that uses machine learning to enable computers to understand and communicate with human language.


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