

Department of Computer Science and Engineering Workshop Report



Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognised by Govt. of Karnataka, Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi)

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Department of Computer Science and Engineering
In Association with IQAC Organizes

Workshop on NLP Empowerment

For 5th Semester Students

| | | | |
|--------------------|--------------------------|------------------------|---|
| Academic Year | 2023-24 | Targeted Audience from | SIET CSE/ISE/AIDS |
| Name of the Event | 1-Day workshop | Number of Participants | 100 + |
| Date of Conduction | 2 nd Feb 2024 | Time | 10:00 AM to 5:00 PM |
| Venue | Cloud Lab | Resource | Prof. Ananth Nagu, Alliance University |

Hands-on Session

- Exploring NLP libraries and frameworks
- Tokenization demonstration using NLTK
- Text preprocessing demonstration using NLTK
- POS tagging using NLTK
- Introduction to NLTK's NER module



Prof. Ananthanagu U
Dept of Computer Science and Engineering,
Alliance University.

Date: 2nd Feb 2024

Venue: Cloud Lab

Reporting Time: 8:45 AM

With Best Complements: Management, Principal, Hod and Staff of SIET.

About the workshop

Natural language processing (NLP) refers to the branch of computer science—and more specifically, the branch of artificial intelligence or AI—concerned with giving computers the ability to understand text and spoken words in much the same way human beings can. NLP combines computational linguistics—rule-based modelling of human language—with statistical, machine learning, and deep learning models. Together, these technologies enable computers to process human language in the form of text or voice data and to ‘understand’ its full meaning, complete with the speaker or writer’s intent and sentiment.

NLP drives computer programs that translate text from one language to another, respond to spoken commands, and summarize large volumes of text rapidly—even in real time. There’s a good chance you’ve interacted with NLP in the form of voice-operated GPS systems, digital assistants, speech-to-text dictation software, customer service chatbots, and other consumer conveniences. But NLP also plays a growing role in enterprise solutions that help streamline business operations, increase employee productivity, and simplify mission-critical business processes.

Workshop Objectives

To deliver the hands-on knowledge of natural language processing and its future directions among students

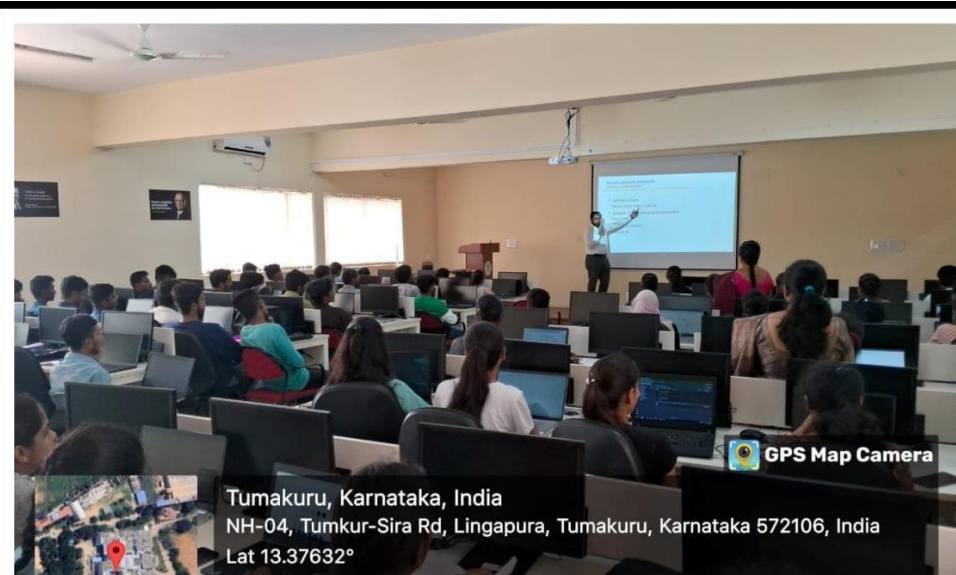
Outcome

This course is designed to prepare students to the federal job market for postings require knowledge of Data structure in future direction. At the conclusion of this course, the audience, students and the future developers who are involved in technological transformation will be able to:

1. Extract information from text automatically using concepts and methods from natural language processing (NLP) including stemming, n-grams, POS tagging, and parsing. Develop speech-based applications that use speech analysis (phonetics, speech recognition, and synthesis).

Glimpse of course conduction are as follows...

Glimpses of Workshop



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