



Department of Artificial Intelligence and Data Science Academic Year 2023 – 2024 (Even Semester)

Degree, Semester & Branch: B.Tech, VI & Artificial Intelligence and Data Science

Course Code & Title: CCS369 & Text and Speech Analysis

Name of the Faculty member (s): Mrs. B. Revathi

Innovative Practice Description

- **Unit / Topic:** Unit I / Exploring Natural Language Basics
- **Course Outcome:** CO 1
- **Topic Learning Outcome:** TLO 1,2,3
- **Activity Chosen:** Flipped Classroom
- **Justification:**

The flipped classroom is an instructional strategy that reverses the traditional learning environment by delivering instructional content, often online, outside of the classroom, and moving activities traditionally considered homework into the classroom. In a flipped classroom model, students typically engage with pre-recorded lectures, videos, readings, or other materials before attending class.

- **Time Allotted for the Activity:** 45 minutes
- **Details of the Implementation:**

Exploring Natural Language Processing was given to the students through e-sources like videos. They described about the Natural Language Processing and its pre-processing concepts. Students were divided into groups. Each group will have prepared the detailed presentation of Natural Language Processing (tokenization, Bag of Words, Stemming & Lemmatization) and deliver their concepts among all the students.

- **CO – PO / PSO mapping:**

CO	PO1	PO3	PO9	PSO1
CO1	3	3	2	3

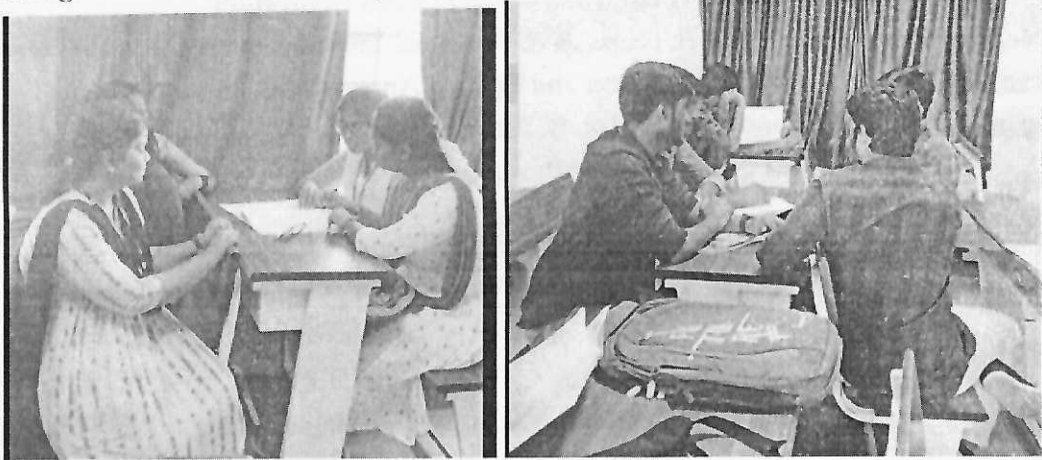
(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PSO1
	3	3
Justification for correlation	Able to apply Theory and Principles of Artificial Intelligence to understand the Natural Language Processing Basics	Students can be able to apply the NLP basics to solve real time problems



- **Images / Screenshot of the practice:**



- **Reflective Critique:**

- ❖ **Feedback of practice from students and other stakeholders:**

Students were asked me to conduct such activities for forth coming classes.

- ❖ **Benefit of the practice:** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

By conducting this activity, Students engage actively with the material outside of class, often through videos or readings, allowing them to absorb foundational concepts at their own pace. They will also be able to reproduce the concepts in the exam. The students gave oral feedback that now they got a clear idea about Basics of Natural Language Processing, and they asked to conduct more such activities like this.

- ❖ **Challenges faced in implementation:**

some students may struggle with accountability and may not complete assignments or review materials consistently.

References:

- ❖ <https://www.panopto.com/blog/7-unique-flipped-classroom-models-right/>

- ❖ <https://www.utrgv.edu/cte/resources-new/course-design/flipped-classrooms/index.htm>.

B. RAJ 8/2/24,
Signature of Faculty Member

W. RAJ
8/2/24
HOD