JERUSALEM COLLEGE OF ENGINEERING
AN AUTONOMOUS INSTITUTION
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DEPARTMENT OF INFORMATION TECHNOLOGY

## Collaborative Learning

## Academic Year 2022-2023 Odd Semester

**Degree, Semester & Branch:** B..TECH -IT.VII,

**Course Code & Title** JCS1701 Big Data Analytics

**Name of the Faculty member (s):** Dr.Maya Eapen

### Innovative Practice Description

**Unit 5-Topic:** Perform data Stream processing using Big Data Tools

**Course Outcome:** CO6

**Topic Learning Outcome:** 5.1, 5.5

**Activity Chosen:** Tool based Demo on Applications of Social media

**Justification:**

Hands-on training is one method used by educational systems to teach people how to perform a specific task. It gives the student real-world experience by allowing him or her to get his or her hands directly on whatever he or she is learning. Students are forced to confront their prior understanding of a concept as a result of this activity.

**Time Allotted for the Activity:** 20 minutes

**Details of the Implementation:**

- Students were told to download any social media dataset they wanted.
- Insisted on loading the data set and describing it.
- Run any of the R/Google colab analyses on their own dataset and visualise the results.
- Discuss the implementation steps with other students.

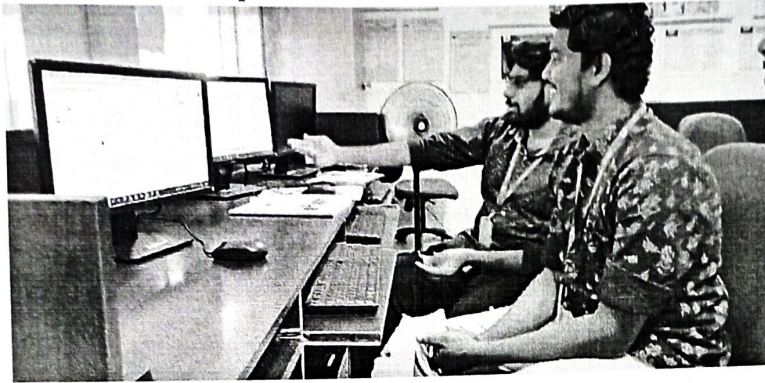**CO – PO / PSO mapping:**

| CO | PO4 | PSO3 |
|----|-----|------|
| CO6 | 2 | 3 |

(1 – Low    2 – Moderate    3 – High)

**PO / PSO mapped:**

| Innovative practice | PO4 | PSO3 |
|---------------------|-----|------|

| | 2 | 3 |
|---|---|---|
| | Data set analysis can be performed and the related problems/case studies will be analyzed. | Visualization can be done for the provided data set and the representation can be done in a statistical way. |
| Justification for correlation | | |

**Screenshot of the practice:**



**Reflective Critique:**
- Students know the possible online tools related to the subjects.
- The demo activity increases the student's presentation skills, knowledge and communication skills.
- Students get in-sight knowledge about the particular topics.

*Benefit of the practice:*
- The students enjoyed the activity. They applied various visual effects to the dataset.
- Hands-on practice aids in the completion of mini projects effectively.

*Challenges faced in implementation:*
- Some online tools create some issues in the browser during the demo.
- Students are not aware of the topic and tool selections.

**References:**

https://graphicmama.com/blog/digital-tools-for-classroom/
https://www.teacheracademy.eu/blog/online-apps-tools-for-teaching/
https://www.european-agency.org/sites/default/files/itlresearh2011findings.pdf

**Signature of Faculty Member**

**HOD /IT**