**Batch: A1**

**Roll No.: 1911001, 1911003, 1911004**

**Chapter No. 2**

**Group No: 1**

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| **Title: Literature Survey.** |

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**Expected Outcome of Experiment:**

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|  | **At the end of successful completion of the course the student will be able to** |
| CO2 | Understand the existing systems, its approaches and identification of gaps. |
| CO5 | Prepare a technical report based on the Mini project. |

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**Books/ Journals/ Websites referred:**

**1.**

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Students will be required to research at least 3-5 relevant research papers in order to understand the existing systems and its operations. Also, identify the existing flaws in the given systems and proposed novel approach to overcome those limitations.

You need to refer to the recent research papers from reputed journals such as IEEE Xplore, ACM, Springer etc. for the same.

**Introduction**:

3 research papers and 1 blog article included as a part of the literature survey

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| --- | --- | --- | --- |
| **Research paper Title** | **Approach/Algorithm/Methodology** | **Findings** | **Gaps Identified.** |
| ViLBERT:Pretraining TaskAgnostic Visiolinguistic Representations for Vision-and Language Tasks | Learns task-agnostic joint representations of image content and natural language | Seminal working vision+ text transformer s. Many other models reviewed have cited this work | Needs data in the form of MCQ questions and answers. Training data used comparatively small as compared to most modern DL models. |
| sentence transformers/bertbase-nli-meantokens | Maps sentences & paragraphs to a 768 dimensional dense vector space and can be used for tasks like clustering or semantic search. | Gives accurate similarity between sentences even if the sentences don’t have common keywords | No methodology for finding a cutoff point beyond which the similarity is no longer relevant |
| Composing Text and Image for Image Retrieval - An Empirical Odyssey | Studies the task of image retrieval, where the input query is specified in the form of an image plus some text that describes desired modifications to the input image. | Works by finding images similar to the input image . The differences between the two images gets specified using string. | The images used in testing are that of a controlled environment. No empirical data to support its performance on images in the wild. |
| Content Based Image Retrieval and Feature Extraction: A Comprehensive Review | -(Review paper) | - | - |

**Post Lab Activities:**

1. Illustrate the importance of good research before the commencement of any project activity.

* It lets us have clear over view and needed insights of field related to project.
* It's a tool for building knowledge and facilitating learning about project.
* It's a means to understand issues and part where project lags.
* It is a means to find, gauge, and seize opportunities for future work.
* It promotes us with confidence to read, write, analyze, and share valuable information related to project.
* It provides more ideas for improvement for future scope of project.
* It helps us succeed in business release after production.

1. What's the difference between References and Bibliographies?

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| References | Bibliographies |
| Reference implies the list of sources, that has been referred in the research work. | Bibliography is about listing out all the materials which has been consulted during the research work. |
| Primary Sources | Both Primary and Secondary Sources |
| Thesis and Dissertation | Journal Papers and Research work |
| Only in-text citations, that have been used in the assignment or project. | Both in-text citations and other sources, that are used to generate the idea. |
| Alphabetically and numerically | Numerically |
| A reference can be used to support an argument | A bibliography cannot be used to support an argument |