**Course Name: Deep Learning (CSC-404)**

**Semester Project**

**Total Marks: 10**

**Due Date: 10 January 2025, 11:59 PM**

**Description:**

This component is a very important assessment tool to assess the learning of enrolled students. This component carries 10 marks in total. The project will be assessed based on an idea, its implementation, report, and finally presentation. In the course, we have covered several aspects included:

* Image Classification
* Image Segmentation
* Object Detection
* Text Processing
* Text Summarization
* Text Classification
* Language Translation
* Text Generation

It is believed that now you must be familiar with deep leaning and its applications.

Expectations:

The following tasks are expected in project submission.

1. Project Group Formation (Max. 2 members | Deadline is Dec 6, 2024)
2. Project Idea Identification (Deadline is Dec 6, 2024 | 01 mark)
3. Project Implementation and GUI development (Deadline is Jan 10, 2025, | 04 mark)
4. Project Report (Deadline is Jan 10, 2025, | 03 mark)
5. Project Video Presentation (Deadline is Jan 10, 2025, | 02 mark)

**Deliverables:**

**Jupyter Notebook:**

Include the complete code for loading the data, building, training, and evaluating of all the experimental settings. Make sure the code is well-documented and easy to follow.

**Project Report (PDF):**

The report must include the title page, abstract, introduction, literature review, proposed methodology, experimental setup, findings, discussion, and conclusion.

**Graphical User Interface (GUI) and Deployment**

You are also required to develop the GUI for your project where live testing can be performed. The GUI can be developed either using stream lit or flask platforms.