

Course Project Brief, Assessment  
and Deadlines

**Brief:**

The course project carries a weight of 25% of overall course grading. Your project score would be graded on idea (12%) and implementation (13%).

So far, we have covered many aspects of Deep Learning, Machine Learning and Generative AI including,

1. Basic concepts of deep learning / machine learning
2. Text processing, from basics to state-of-the-art transformer architecture
3. Computer Vision with Deep Learning
4. Basics of LLM

This should give you enough understanding as to how and where Deep Learning works and applied.

This project expects you to apply your Deep Learning knowledge and practical skills acquired so far to develop something that is,

1. A whole new idea, I would be over the moon if someone comes up with a creative idea which may become a success story of this class, my aspiration
2. Implementation of some existing idea on issues related to real world, more specifically Sukkur IBA University world
3. Solve some Kaggle challenge related to Deep Learning, this probably is straight forward. The challenge problems are well defined on Kaggle, accept the challenge to solve those issues on Kaggle from 2023
4. Video, image or text processing through Deep Learning / LLMs / Generative AI
5. Any other aspect of Deep Learning that you can defend in class

Once you have an idea, please write it on 3-5 pages long idea proposal document that includes but not limited to,

1. Introduction
2. Problem Statement
3. Proposed Methodology
4. Dataset discussion, if any
5. Major Outcomes
6. Project Timeline
7. Conclusion
8. References

The idea proposal submission deadline is **October 24, 2025, 11:59pm.**

Once you have drafted your idea, the next step is to record a video of 8-10 minutes to explain your idea. Please ensure all group members are participating equally in the video preparation and presentation. Upload idea video on YouTube or Google drive, include link of the video at the end of your idea report and submit it on eLearning. The instructor will create a submission link before October 24, 2025.

Following is complete rubric for project idea assessment (12%), remember as group you need to equally distribute time allowed for presentation in video and during the class. You will be graded on your individual performance, NOT group performance.

### **Assessment Rubric for Idea**

<b>Sukkur IBA University</b>				
<b>Project Idea Assessment (Total Score = 12% of the course)</b>				
<b>Course</b>	<b>Deep Learning (Fall 2025)</b>	<b>Class</b>	<b>BS CS/AI/SE (VII)</b>	
<b>Course Instructor</b>	<b>Sher Muhammad Daudpota</b>		<b>Scholar Name</b>	
<b>Aspect</b>	<b>Needs improvement=0-2</b>	<b>Approaching Expectations=3-6</b>	<b>Meet Expectations=7-10</b>	<b>Total Score 10</b>
<b>Report Part (6% of the course)</b>				
<b>Introduction</b>	No included	Included but could not build properly the project idea	Included and properly elaborates the project idea	
<b>Problem Statement</b>	Not included	Included but problem statement does not properly justify the issue	Include and properly justified the problem area	
<b>Methodology</b>	No discussion about methodology	The student has rightly identified the machine learning / deep learning / generative AI technique to be applied on the problem but in not clear how to apply	The student is clear about the right technique for the problem and proper method to apply it	
<b>Dataset discussion</b>	No dataset identified through it is necessary for the problem area to identify a dataset	Data is identified but that does not match with problem statement	Proper dataset identification	
<b>Major Outcomes</b>	Project outcomes are not defined	Limited project outcomes identified	Project outcomes identified properly in line with project idea	
<b>Project timeline</b>	Not included	Included but needs improvement	Proper project timeline is included	
<b>Conclusion</b>	No conclusion included	Conclusion is written but not properly drawn	Proper conclusion written	
<b>Reference</b>	References not included through there is need of it	Reference included but limited	Proper references included	
<b>Presentation (through video recording / class presentation) Part (6% of the course)</b>				
<b>Opening</b>	No greeting at the start	Started with greeting but could not introduce the idea and idea started well properly	Started with greeting and idea started well	

<b>Material</b>	Many aspects of project idea missed	some aspects of project idea missed	All aspects present in the proposal and expected by the instructor were presented well	
<b>Language</b>	Urdu/ Sindhi	English but mixed with Urdu	Correct English	
<b>Time management</b>	Took too long or too short to finish presentation	difference of + -2 of allocated time	Perfect, only 10 minutes were used to explain the idea	
<b>Total Score Obtained by the Scholar</b>				
<b>Note:</b> Instructor/scholar to tick appropriate block		<b>Date of Evaluation</b>		
<b>Comments:</b>				
<b>Total Score</b>		<b>Signature</b>		

- Remember, this is a group project, the instructor has already created your groups. Please check your name in the eLearning and start discussion with your group members.
- MUST NOT BRING A REQUEST TO ME TO CHANGE YOUR GROUP, THIS IS FINAL
- In case your group member(s) withdraw from the course, you will work individual. I don't think such situation will occur because each of the group is having at least three members
- You can discuss idea with instructor any time, just drop him an email to set meeting time, it's your right to meet him beyond classroom and have individual discussion with him, use your right.
- I strongly recommend visit Kaggle for Deep Learning / Gen AI problems, it is easy to justify Kaggle projects as they have already gone through process
- You should enjoy working on project, failure is guaranteed, if you see it as a burden.
- Final project submission is due on November 27, 2025, 11:59pm, followed by presentation on November 28, 2025
- Use submission links on eLearning for proposal and final submission

Project Final Assessment (Total Score = 13% of the course)				
<b>Course</b>	<b>Deep Learning (Fall 2025)</b>		<b>Class</b>	<b>BS CS/AI/SE VII</b>
<b>Course Instructor</b>	<b>Sher Muhammad Daudpota</b>		<b>Scholar Name</b>	
<b>Aspect</b>	<b>Needs improvement=0-2</b>		<b>Approaching Expectations=3-6</b>	<b>Meet Expectations=7-10</b>
<b>Report Part (6% of the course)</b>				
<b>Introduction</b>	No included	Included but could not build properly based the project idea already submitted	Included and properly elaborated based on the project idea already submitted	
<b>Problem Statement</b>	Not included	Included but problem statement does not properly justify the issue	Included and properly justified the problem area	
<b>Methodology</b>	No discussion about methodology	The student has rightly identified the machine learning / generative AI technique to be applied on the problem but could not apply it properly	The student is clear about the right technique for the problem and proper method to apply it	
<b>Dataset discussion</b>	No dataset identified through it is necessary for the problem area to identify a dataset	Data is identified but that does not match with problem statement	Proper dataset identification and usage	
<b>Major Outcomes</b>	Project outcomes are not defined	Limited project outcomes defined and achieved, these are not the same as discussed in project idea submission	Project outcomes identified properly in line with project idea and achieved all the outcomes	
<b>Conclusion</b>	No conclusion included	Conclusion is written but not properly drawn	Proper conclusion written	
<b>Project Implementation</b>	The idea could not be implemented	The idea is implemented but many aspects are missing	The idea is implemented as claimed in the project proposal	
<b>Reference</b>	References not included through there is need of it	Reference included but limited	Proper references included	
<b>Presentation (face-to-face) Part (7% of the course)</b>				
<b>Opening</b>	No greeting at the start	Started with greeting but could not introduce the project properly	Started with greeting and introduced the project well	
<b>Material</b>	Many aspects of project idea missed which were presented during idea presentation	some aspects of project idea missed	All aspects present in the proposal and expected by the instructor were presented well	
<b>Language</b>	Urdu/ Sindhi	English but mixed with Urdu	Correct English	
<b>Project Demo</b>	Not presented	Presented with partial implementation	Presented with proper implementation	
<b>Time management</b>	Took too long or too short to finish presentation	difference of +2 of allocated time	Perfect, only 10 minutes were used to explain the idea	
<b>Total Score Obtained by the Scholar</b>				
<b>Note: Instructor/scholar to tick appropriate block</b>		<b>Date of Evaluation</b>		
<b>Comments:</b>				
<b>Total Score</b>		<b>Signature</b>		