Republic of the Philippines
Laguna State Polytechnic University
Province of Laguna

Machine Problem No. 1			
Topic:	**Topic 1: Introduction to Machine Learning**	**Week No.**	1-2
Course Code:	**CSST102**	**Term:**	1st Semester
Course Title:	**Basic Machine Learning**	**Academic Year:**	2024-2025
Student Name		**Section**	
Due date		**Points**	

Machine Problem No. 1: Create Github Repository for the subject.

Objective:
Familiarize students with various applications of machine learning in real-world scenarios.

Instructions:

1. **Research and Identify Applications:**
   - Select at least three different domains where machine learning is applied (e.g., healthcare, finance, marketing).
   - Research and identify a specific machine learning application within each selected domain.

2. **Create a Presentation:**
   - **Slide 1: Introduction**
     - Briefly introduce machine learning and its growing importance in various industries.

   - **Slide 2: Application 1**
     - **Problem Being Solved:** Describe the specific problem the machine learning application addresses in the first domain.
     - **Type of Machine Learning Used:** Specify whether the application uses supervised, unsupervised, or reinforcement learning.
     - **Impact of the Solution:** Discuss the impact the machine learning solution has had on the industry or organization, including any measurable outcomes or benefits.

   - **Slide 3: Application 2**
     - Follow the same format as Slide 2 for the second application in a different domain.

   - **Slide 4: Application 3**
     - Follow the same format as Slide 2 for the third application in yet another domain.

- **Slide 5: Conclusion**
  - Summarize the key points from the three applications, highlighting the versatility and impact of machine learning across different fields.

3. **Presentation Submission:**
   - Save your presentation in PDF format.
   - Submit the PDF file to the designated folder on the course management system by the end of the week.

4. **Class Discussion:**
   - Be prepared to present your findings in class.
   - Engage in a discussion on the significance of machine learning in the modern world, drawing on examples from your research.

Note: Ensure that your research is based on credible sources and that your presentation is well-organized and visually clear.

Submission Instruction:

- Create Github Repository of the Subject (e.g. CSST102-CS3D),
- Submission format (Reference: https://github.com/leeroyvincent/MIT-504-DEPATILLO)
- Create PowerPoint Presentation based on the **3. Presentation Development**, and export to video with 5-10 seconds transition per slide. Also include the content in Github using Markdown Language .md
- Filename Format: [SECTION-BERNARDINO-MP1] **2D-BERNARDINO-MP1**

Inability to follow this instruction will be deducted 5 points each for filename format and late submission per day. Also, cheating and plagiarism will be penalized.

Rubric for Machine Problem No. 1: Introduction to Machine Learning

Criteria	Excellent (10 points)	Good (8 points)	Fair (5 points)	Poor (2 points)
Selection and Relevance of Domains	Three distinct and relevant domains selected.	Two distinct and relevant domains selected.	One relevant domain or mixed domains poorly selected.	No distinct or relevant domains selected.
Clarity and Specificity of Applications	Applications clearly identified and described.	Applications identified but with some generalizations.	Applications vaguely identified or lacking detail.	Applications not specific or irrelevant.
Introduction and Problem Statement	Clear introduction to ML and problems well-articulated.	Introduction and problem statement somewhat clear.	Introduction or problems unclear or incomplete.	No introduction or problem statement.
Explanation of ML Type and Impact	ML type accurately explained, and impact thoroughly discussed.	ML type explained with some detail, impact discussed.	ML type and impact mentioned but unclear or incorrect.	ML type and impact not explained or irrelevant.
Presentation Quality and Organization	Well-organized, visually appealing, and professional.	Organized but could improve in visual appeal.	Lacks organization or visual appeal.	Disorganized and visually poor.