SEMINAR TOPICS

Following are the topics from which the students have to choose for the seminar paper for the 3rd semester:

Sl No.	Name	Topic
1.	Prof. Anjana Kakoti Mahanta	1. Finding influential users from WhatsApp groups.
		2. Expanding the recommendation system designed by Kaustav Deka (pass out batch 2022) for Assam's Brash and Bell metal utensils.
		3. Classification of hand woven and machine made mekhela-chaddar, using ML methods and Image Processing techniques. This will involve creating labelled data manually.
		4. Sentiment / Emotion Mining from Twitter data or other social media data.
		5. Classification of flowers and vegetables according to monkey's affinity for them, using ML methods by creating labelled data of local flowers and vegetables.
		6. Detection of Fake news/ propaganda using ML.
2.	Dr. Sanjib Kr. Kalita	1. Image Processing using Machine Learning
		2. Speech Processing using Machine Learning
3.	Dr. Hasin A. Ahmed	1. Smart City
		2. Artificial Neural Network in Healthcare
		3. Artificial Neural Network in Agriculture
		4. Artificial Neural Network in Regression Analysis
4.	Mr. Dwipen Laskar	1. Gait Analysis
		2. Precision Agriculture in Irrigation
		3. Precision Agriculture in Pest Control and Disease Detection
		4. Addressing Human Animal Conflicts using Machine Learning
5.	Dr. Irani Hazarika	1. Musical Pattern Feature Extraction using CNN
		2. Music Genre Classification
		3. Interval Data Classification
		4. Compiler Design
6.	Dr. Pranamika Kakati	1. Image Processing
		2. Neural Networks
7.	Dr. Kalyanbrat Medhi	1. High security number plate detection
		2. AI in Healthcare
		3. Wild Text Recognition
		4. Scientific Symbol Recognition
8.	Mr. Diganta Kumar Pathak	1. Semantic Segmentation
		2. Image transformation (using cycleGAN)
		3. Data augmentation using Generative Adversarial Networks
9.	Mr. Risheraj Baruah	1. Medical Image Segmentation
		2. Degraded Image Restoration
		3. Image Classification using Neural Networks
		4. Application Benchmarking

Students are suggested to opt for the topic such that it can be carried forward as a Project in the next semester.