SI No.	Project	Title	Problem statement	No. of members
1	Multi Object Tracking Mentor - Basava	Multi Object Tracking in videos	the states of multiple objects, such as locations, velocities, and sizes, while maintaining their identifications under appearance and motion variations with time. Approach: Tracking by detection First, all detections are extracted via YOLO, Faster RCNN, and so on. Then, an association algorithm is performed to link these detections to different tracks. Usually, the association algorithm considers motion (direction, speed,) information and appearance information.	
2	Caffe2 , MxNet runtime parser Mentor - Sharan	Design and implement caffe2 & Mxnet parser for ARMNN. Optimize execution of pre-trained models	ARMNN (https://github.com/ARM- software/armnn) does not support parsers for various different ML frameworks like Caffe2, MxNet	
3	Compression of OnDevice Al Model Mentor: Sharan	Compression of OnDevice AI Model	Present day AI models are growing into heavier and complex models which are not compatible to be executed in Ondevice environment, hence the need for customization. Custmization involves all the following steps: Pruning: To reduce model size by removing operations, weights. Quantization: Bitwise representation of the data with out accuracy loss for improving the inference speed. Ondevice ML specific model: Realizing/supporting the unsupported model.	4

Trie base retrival subsystem	Trie base retrival subsystem	Retrival system development which works		
Mentor: Vanraj		mostly directly on file syste. With this retrival		
		system RAM can be saved when data size is		
		too huge and can not be loaded in main		
		memory.		
		This is tradeof of the IO operation (lower		
		speed) with cost of the saving RAM.		
		Compare some of the state of the art and		
		apply new technique for embedded devices		
Display Emoji to enhance text	Display Emoji to enhance text	Enhancing the presented text with Emoji.		
mentor : Vanraj/Parameswaranath		When text is displayed to user find the right		
		emoji which can be used with given text to	2	
		give rich experience.		

Professor Assigned 1	Siudeni	Student		
Priyadarshini Patil	Mambar 1	Mambar 2	3	Mombor 1
Sunil V G				
Praveen M D	Vaishno Jha	Vaibhav Hegde	Swathi Agarwal	Shyam Sundar Agarwal

Dr Meena S M		
Shruthi Maralappanavar		