



Hope Foundation's
Finolex Academy of Management and Technology
P60-, P60-1, MIDC, Mirjole, Ratnagiri, Maharashtra, Pin 415639
Department of Information Technology

Project Information for FE/SE/TE/BE Information Technology Mini/Major Project

AY 2023-24, Semester – EVEN/ODD

Title of the Project:

Project Group Number/ ID:

Primary SIG of the Project:

Type of Project: System / Industry / Research / Application

Type of Project: Social Relevance/ Institute Problem/ Extended Problem

Project Category: In-house / Out-house

Company Name: (In case of Out-house project)

Project Group Members:

Sr.	Name	Contact Number	e-Mail ID
1			
2			
3			

Project Guide Name:

Industry Mentor Name, Designation, Affiliation

Software Requirement:

Hardware Requirement:

Project Cost:

Sponsorship / Support Cost Given by Company (If any):

Project Objectives (PROB) –

PROB 1	
PROB 2	
PROB 3	
PROB 4	
PROB 5	
PROB 6	

Project Outcomes (PRO) –

PRO 1	
PRO 2	
PRO 3	
PRO 4	
PRO 5	
PRO 6	

Program Outcome and Project Outcome (PO-PRO) Mapping – (Sample values are entered below, please discuss with the Guide and enter appropriate values)

List of Project Outcomes (PROs): PRO-PO Matrix:														
PRO/POs	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2
PRO1	1	0	0	0	0	1	1	0	0	0	3	0	0	3
PRO2	0	0	0	3	2	0	1	0	3	3	0	0	3	3
PRO3	0	0	0	0	0	0	0	0	0	0	0	1	0	3
PRO4	0	0	0	1	2	0	2	2	3	3	3	0	3	0

Mapping Levels: No Mapping – 0, Low -1, Medium -2, High -3

Project/ Research Objectives Detailing: (Example Given Below)

Sr.	Project/ Research Objective	To-Do List
1	To perform exploratory data analysis, collection, filtering, sampling, and eyeball testing on various datasets available for visual representation use cases such as road signs.	1. Perform Data Exploration and Collection 2. Generate Dataset Stats 3. Build a Bootstrap Dataset from all explored datasets 4. Data Filtering to Remove Outliers 5. Data Sampling to handle class imbalances 6. Eyeball Testing
2	To build the pretext strategy to induce domain-specific knowledge and set an objective for the network to detect and classify objects.	7. To build a pretext strategy and set objectives for the network. 8. Defining evaluation metrics 9. Generation of the synthetic dataset. 10. Data filtering, sampling, preparing and eyeball testing. 11. Network Modelling and Model Training 12. Model Evaluation of learned representations
3	To train on various downstream tasks using the learned representations, handle domain divergences and evaluate its performances over supervised and other self-supervised counterparts.	13. Defining evaluation metrics 14. To build and train a baseline model using the supervised learning approach. 15. Build domain divergences strategy to make domain agnostic models. 16. Train the downstream model using the pretext model as a pre-trained model. 17. Model Evaluation and Comparison with baseline model 18. Documents the benefits achieved in terms of generalizability and model performances
4	To perform model optimization and compression, to run models on resource-constrained devices efficiently.	19. Distil the knowledge of the trained downstream network to a smaller network. 20. Perform pre and post-model optimization such as quantization-aware training, pruning, quantization etc. 21. Profile model based on its performances on various edge devices 22. Conduct a comprehensive study to understand the best suit optimization and compression technique with their respective trade-offs



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Project Outcome Attainment Through Stakeholders Feedback -

Please Give your feedback for the attainment of listed project outcome PRO (0-100)	Member 1 Feedback	Member 2 Feedback	Member 3 Feedback	Project Guide's Feedback	Average Attainment in % Through Project Group Feedback
Project Outcomes (PRO)					
PRO 1:					
PRO 2:					
PRO 3:					
PRO 4:					

Program Outcome Attainment – (to be generated using OBE Utility/Excel Template)

PRO/POs	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO11	PO1 2	PSO 1	PSO 2
PO Attainment														

(Name and Signature)

Project Coordinator

(Name and Signature)

Project Guide

(Name and Signature)

Head of Department

Industry Mentor Name, Designation, Affiliation



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Project Planning for FE/SE/TE/BE Information Technology Mini/Major Project

AY 2023-24, Semester – EVEN/ODD

Title of the Project:

Project Group Number/ ID:

Project Guide:

Week No.	Planned Activity	Details of Implementation
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

(This report is to be submitted in the First Week after project is finalized and guide is allocated by Every Project Group)

(Name and Signature)

(Name and Signature)

(Name and Signature)



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Project Coordinator

Project Guide

Head of Department

Project Weekly Progress Report for FE/SE/TE/BE Information Technology
Mini/Major Project

AY 2023-24, Semester – EVEN/ODD

Title of the Project:

Project Group Number/ ID:

Date:		Week:	
Planned Task:			
Completed Task :			
Remarks by Project Guide			
Signature of Group Members: 1) 2) 3)			

(This report is to be submitted weekly by Every Project Group)



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(Name and Signature)

Project Coordinator

(Name and Signature)

Project Guide

(Name and Signature)

Head of Department

Industry Mentor Name, Designation, Affiliation