TOPIC PROPOSAL FORM



FYP 1-0 (a)

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Contact No.: 018-4739194	CGPA: 4.00	Total Credits (current semester): 16	Academic Advisor Name: Dr. Khairul Hamimah Binti Abas	
Supervisor Name: Dr. Nurulaqilla Binti Khamis	Field: Machine Vision, AI	Detection and Monitoring Dashboard for Environmental Stewardship		
Goal:	To develop an Al-based trash detection and monitoring dashboard that capable to distinguish metal, plastic, and glass type of waste			
Objectives:	Utilize model Preparenhance ii. Model Train to followed improve the collected iii. Deploy Development	 Utilize an open-source dataset to train the initial model for trash detection and classification Prepare and collect a custom dataset to further enhance model accuracy ii. Model Development Train the model using the initial dataset, followed by fine-tuning with custom dataset to improve the performance Validate the model's performance using another collected custom dataset 		
Scope:	ii. Selecti detecti iii. Prepar annota iv. Design	on and trash classifi	n, plastic and glass on of YOLO for object lecation d dataset, followed by ning	