

School Of Computer Science University Of Petroleum and Energy Studies P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Bachelors of Technology in Computer Science & Engineering Minor Major

Issue Date: March 26, 2023

Project Title

Solar Panel Maintenance System

Mentor Name

Sugandha Sharma

Project Number

S. No.	Roll Number	Branch	Name	Role	Signature		
1	R177219194	B. Tech. CSE AI & ML B-6 Sem-VIII	Utkarsh Gupta	Developer & Team Leader	Othorsb		
2	R177219206	B. Tech. CSE AI & ML B-6 Sem-VIII	Aradhya Singh	Developer & Version Control	Dagh		
3	R177219207	B. Tech. CSE AI & ML B-6 Sem-VIII	Tanu Sharma	Developer & Documentation	Tanu		

		Project Mentor											Head	d Of Departm	ent			
		Date Title Approval Synop					neie .	Mid-Term	End-Term	Di	rograss	s Report	Total Marks	Project Status Authenticity Yes/ No				
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Bachelors of Technolgy in Computer Science Engineering

Minor Major

Project Title	Solar Panel Maint	Mentor	Name	:	Sug	gandha Sh	arma					
Abstract	Cost efficient solution for cleaning solar panels automatically without any human interference. The system will be trained to detect whenever a solar panel is generating considerably less solar energy, making the cleaning system active. The system will consist of variety of sensors to get the real time weather information and figure out whether the panel is working efficiently or not. The system will also include a water jet and an air blower to wash and dry out the solar panel.											
Objective	The objective is to develop a cost efficient and automatic solar panel maintenance system. Thereafter, develop a working prototype hardware of the project to simulate the working in real time environment.											
Methodology	First the AI model for predicting the solar output will be developed and then the prototype of the hardware will be developed.											
Progress 1												
		Marks	10	10	10	10	10	10	10	10	10	10
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Progress 2												
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Guideline: 1) A project group can be of maximum 4 members and no alteration in the group member will be entertained later.

Signature

Guideline: 2) Methodology should have following steps Step1: Literature Review; Step2: Identification of Requirement (Type of Data source, Amount of Data, & Format of Data); Step3: Identification of Algorithm; Step 4: Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results Guideline:3) Student should upload softcopies of all the documents (reports and power point presentations) in "Project Directory", 24 hrs prior to evaluation. Guideline:4) Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for defaulter i.e., 1 to 3 scale.

1: Poor 2: Average 3: Good

4: Excellent