BEST PRACTICES- I

COMMUNITY ENGAGEMENT USING SERVICE LEARNING MODEL

PPG Institute of Technology prioritizes practical learning through community-based projects, fostering a well-rounded education. Students committed to community engagement through its innovative projects, aligning with the Service Learning Model. These projects not only showcase the technical proficiency of students but also reflect their social commitment and responsibility towards the community. The educational platform for underprivileged students exemplifies the institute's dedication to bridging educational gaps. By utilizing their technical skills, students contribute to uplifting the community through accessible and quality education. This initiative not only serves as a testament to the students' technical abilities but also highlights their commitment to addressing societal issues. Sustainability projects undertaken by the students demonstrate a deep sense of environmental responsibility. The development of an IoT-based garbage system and the experimentation with bio-fiber composites for sisal fiber showcase a holistic approach to problem-solving. These projects contribute to

environmental sustainability, emphasizing the institute's commitment to creating socially responsible technologists. The credit card fraud predictor, virtual outfit try-on, and Twitter sentiment analysis projects showcase the students' ability to address contemporary challenges. By engaging in these projects, students not only enhance their technical skills but also gain insights into real-world issues, preparing them for future contributions to their professional fields. Furthermore, the institute's emphasis on teamwork and collaboration is evident in projects like the IoT-based fish feeder and water quality monitoring system, the smart communication network for fishermen, and the automatic trash removal machine for water bodies. These projects not only involve technical innovation but also instill essential interpersonal and leadership skills in the students. PPG Institute of Technology's projects under the Service Learning Model actively contribute to community engagement by addressing real-world challenges. Through a combination of technical expertise, social commitment, and collaborative efforts, students develop a well-rounded skill set that prepares them for impactful contributions to both their professional fields and the broader community.

LIST OF COMMUNITY ENGAGED PROJECTS

S.No	Title of the Project	Link
1	Credit card fraud predictor using Knime tool	View Document
2	Virtual outfit try-on using open CV	View Document
3	Menstrual Cycle Analysis	View Document
4	Face recognition attendance System web application	View Document
5	Intteliscan Insights	View Document
6	Market basket Insights	View Document
7	IOT based garbage system	View Document
8	Lifi Technology	View Document
9	Twitter sentiment analysis	View Document
10	Result management system	View Document
11	Semi-automatic seed sewing Machine	View Document
12	Bikers rain protector	View Document
13	Electricity generator from rainfall	View Document
14	Blind stick	View Document
15	Ventilator	View Document
16	Oxygen air pump	View Document
17	IOT based bios crypt authentication and intimation system	View Document
18	IOT based automatic fish feeder and water quality monitoring and controlling	View Document

S.No	Title of the Project	Link
19	Smart communication network for the fisher men using RF technology	View Document
20	Children and kids swimming safety for avoid shrink through IOT	View Document
21	IOT based motion detector and security alerting system	View Document
22	Automatic trash removal machine for water bodies	View Document
23	Experiment investigation on mechanical chemical acoustical and morphological analysis of bio-fiber composite of sisal fiber	View Document
24	Automatic Door Locking system	View Document
25	Blood Bank Management system	View Document
26	IOT based garbage system with self-charging	View Document
27	Gas leakage monitoring & alerting system for industries	View Document
28	Density based smart traffic light control system	View Document
29	Vision for blind people using OCR	View Document
30	Direction guidance Blind stick	View Document
31	IOT based Hypoxia detection for Covid Patients	View Document