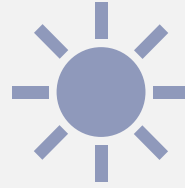




AI and Green Skills

Solar power system:



Solar power plants play a critical role in the transition toward clean energy.



The introduction of AI driven predictive maintenance offers a solution that can help identify potential failures before they happens.



The predictive model reduced downtime by 30% ,increased energy production and lowered maintenance costs.

Waste sorting using computer vision :

- Waste management is a critical aspect of sustainability.
- A major problem faced by recycling facilities is the incorrect sorting of waste, which reduces recycling efficiency.
- AI and Machine Learning, particularly computer vision, can automate this process by identifying and classifying waste types.



Energy efficiency in small buildings:



Buildings account for nearly 40% of global energy consumption.



Improving energy efficiency in buildings is essential for meeting sustainability targets.



You are provided with building energy usage data, occupancy data and weather conditions over a two year period.

Air quality prediction in Urban areas:

- Air pollution is a severe challenge in Urban areas, impacting public health and the environment.
- Accurately predicting Air quality levels can help city officials take timely actions to reduce emissions or warn the public.
- AI models can fill these graphs by using available sensor data combined with weather and traffic information.



Sustainable Agriculture with AI for crop yield prediction:

- Agriculture is highly sensitive to environmental conditions such as temperature, rainfall, and soil quality.
- AI can help by analysing historical data and environmental factors to forecast yields and recommended best practice for sustainability for me.
- Using historical crop data, soil conditions, and weather patterns, the AI providing yield forecasting and irrigation recommendations.



