Energy industry need to accelerate the Smart Green Transition, can AI help?

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What we will cover in this session:

- What are we trying to solve
- Why are we doing this
- Training & Prediction ML pipeline
- Solution Architecture

Problem statement:

- By burning coal, gas and oil for our energy needs, humans are adding carbon to the atmosphere, which traps the solar heat contributing to Global warming.
- Though there is an increasing attention on solar energy as a renewable source of energy, there is no knowledge/ defined process to harness the solar energy.

But what about existing facilities:

- Lack of proper manual understanding of facility's electricity data and power consumption for Energy companies and consultants.
- Lack of enough information for investors/policy makers/railways/electrical department to come up with viable solar energy investments.

<u>What we can do:</u>

- The present solution is susceptible to noise from varying bottom conditions and climatic conditions, shadowing.
- Predictive Analytics and Machine Learning models can come to the rescue of sales teams to build energy estimations and help them go to the needy market quickly and effectively.
- We can develop a production ready vision engine to provide accurate rooftop solar PV analysis so that the platform operates across building portfolios.

Training Phase



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Prediction



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Solution Architecture

Solution Architecture:



Thank you!

I don't want to protect the environment. I want to create a world where the environment doesn't need protecting.

