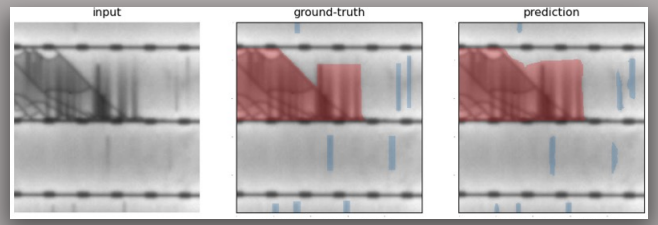
Better Solar Orlando, Florida

Automating Photovoltaic Module Health Inspections with Machine Learning

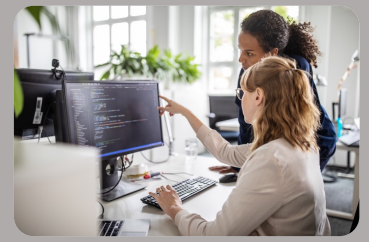
With focus on *increasing efficiency* and *lowering costs*, the Photovoltaic industry is continually in search of quality control practices. ***Electroluminescence (EL)*** images, provide valuable information to diagnose a module's health.

Our Vision:

- *Eliminate the need for manual EL image interpretation*
- ***AUTOMATED MACHINE LEARNING (ML)** approach*



Our Solution:



- *Provide **TAILORED** ML models for specific use cases and **CUSTOMIZABLE** user settings for failure criteria*
- ***Defect detection** and localization of various defect categories, and an analysis of defect **IMPACT** on module energy yield.*
- *Provide suggestions on corrective actions in **MANUFACTURING** and **FIELD** settings.*