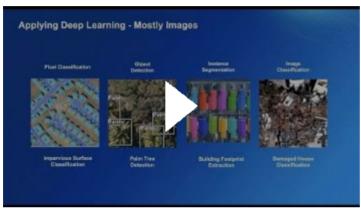
Final Project

Friday, April 26, 2024 12:34 AM

- CNN/VIT for Solar Panels
 - 1. Learns and identifies solar panels (this has been done before using CNN, so it should be easy to replicate)
 - 2. Detect damaged panels
 - 3. Estimate the energy output of those panels using information gotten like the size/features/position of panel relative to sunlight.
- Links:
 - Machine and Deep Learning for Your Modern Energy Enterprise



- https://pro.arcgis.com/en/pro-app/latest/help/analysis/deep-learning/deep-learning-in-arcgis-pro.htm
- https://pro.arcgis.com/en/pro-app/latest/tool-reference/image-analyst/detect-objects-using-deep-learning.htm
- https://www.esri.com/en-us/industries/blog/articles/introducing-pretrained-deep-learning-models-for-energy/
 https://www.esri.com/arcgis-blog/products/arcgis/imagery/introducing-ready-to-use-deep
 - nttps://www.esri.com/arcgis-biog/products/arcgis/imagery/introducing-ready-to-use-deep-learning-models/
- https://www.esri.com/arcgis-blog/products/arcgis/imagery/new-pretrained-models-available-may-2022/
- https://supperundsupper.com/wp-content/uploads/2019/10/Detection-and-Mapping-of-Photovoltaic-Panels.pdf
- https://www.arcgis.com/home/item.html?id=c2508d72f2614104bfcfd5ccf1429284/1000
- https://storymaps.arcgis.com/stories/b9de83bf40644200a946ec5575efb56d
- https://hub.arcgis.com/content/fcf62d84488f46ff93a5edc517f920ee/about
- https://doc.arcgis.com/en/pretrained-models/latest/imagery/introduction-to-solar-paneldetection-usa.htm
- https://doc.arcgis.com/en/pretrained-models/latest/imagery/using-solar-panel-detection-usa.htm
- https://www.linkedin.com/pulse/detecting-solar-panels-basel-deep-learning-arcgis-jupyter-m%
 C3%BCller/
- https://www.linkedin.com/pulse/detecting-solar-panels-basel-deep-learning-arcgis-jupyter-m% C3%BCller/
- https://doc.arcgis.com/en/pretrained-models/latest/imagery/introduction-to-solar-photovoltaic-park-classification.htm
- https://www.esri.com/en-us/industries/petroleum/segments/renewables
- https://www.esri.com/about/newsroom/arcnews/deep-learning-model-unlocks-potential-of-solar-energy-development/

- https://www.esri.com/about/newsroom/publications/wherenext/nexttech-solar-assessments/
- https://www.esri.com/about/newsroom/publications/wherenext/utilities-business-model-change/
- https://www.esri.com/arcgis-blog/products/arcgis-geoplanner/design-planning/solar-suitability-modeling-with-arcgis-geoplanner/
- https://www.esri.com/about/newsroom/arcnews/the-power-of-location-analytics-in-the-solar-and-wind-energy-industry/
- https://www.arcgis.com/home/item.html?id=55600a3a452c4b208d3c54026c3f7cd1