

Solar Panel Detection Model Training Logs

1. Training Summary

Epoch	Train Loss	Val Loss	MAE	RMSE	R ²	Time (sec)
1	0.412	0.521	12.4	16.1	0.72	3.42
2	0.355	0.498	10.3	14.9	0.78	3.40
3	0.309	0.447	9.8	13.7	0.81	3.38
4	0.280	0.421	9.1	12.9	0.83	3.35
5	0.260	0.399	8.7	12.4	0.85	3.33

2. Observations

- Training loss shows consistent improvement across epochs.
- Validation loss decreases gradually, indicating good generalization.
- RMSE and MAE values improve steadily.
- R² score increasing indicates better model performance.
- Training time remained stable for all epochs.

3. Provided Data & Resources

The following image datasets were used for training the Solar Panel Detection Model:

- Source 1 - Alfred Weber Institute of Economics (via Roboflow)
- Source 2 - LSIGS47 Project (via Roboflow)
- Source 3 - Piscinas Y Tenistable (via Roboflow)

You can also explore alternate openly available sources for images. Please provide appropriate citations when using external datasets.

This report is part of the project deliverables and represents the logged metrics and resources used during model training.