

SolarVision AI

PV Panel Defect Detection Report

Generated: February 05, 2026 at 16:51

Executive Summary

Metric	Value
Total Images Analyzed	36
Average Confidence	96.4%
Detection Model	ResNet18 + SVM (96.8% accuracy)
Report Generated By	SolarVision AI v1.0

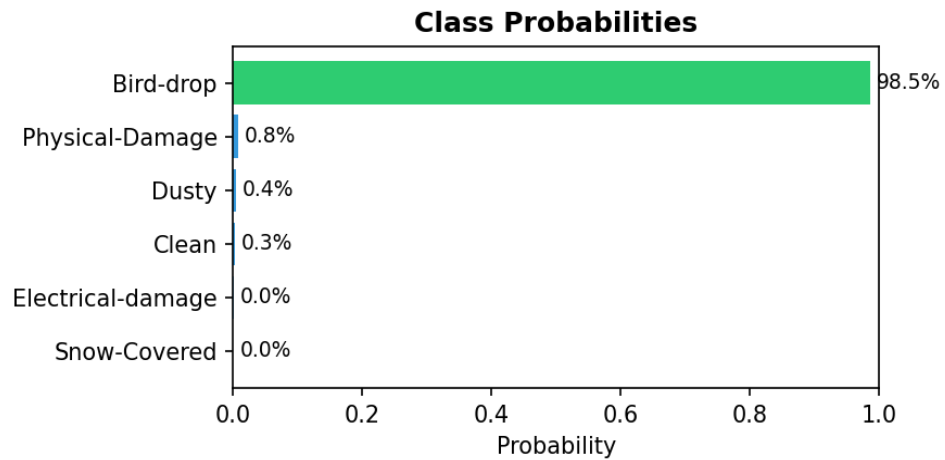
Result 1: Bird-drop_Bird (159).jpg

Predicted Class: Bird-drop

Confidence: 98.5%

Top 3 Classes:

- Bird-drop: 98.5%
- Physical-Damage: 0.8%
- Dusty: 0.4%



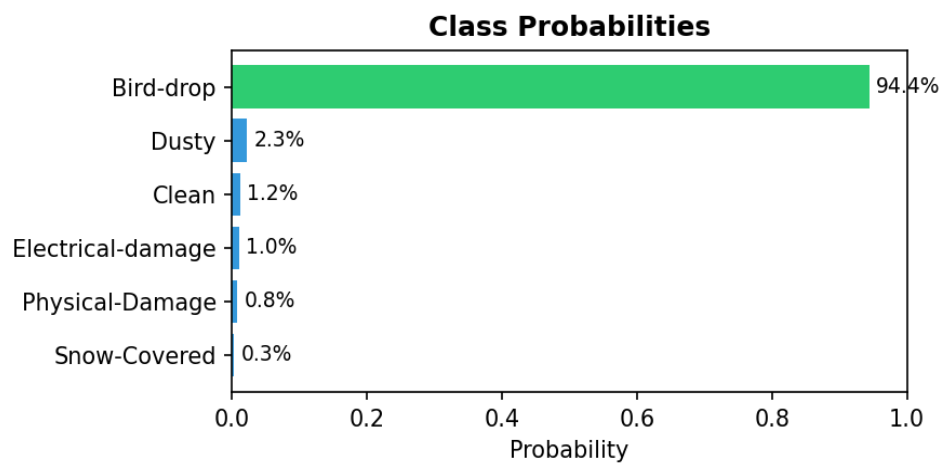
Result 2: Bird-drop_Bird (179).JPG

Predicted Class: Bird-drop

Confidence: 94.4%

Top 3 Classes:

- Bird-drop: 94.4%
- Dusty: 2.3%
- Clean: 1.2%



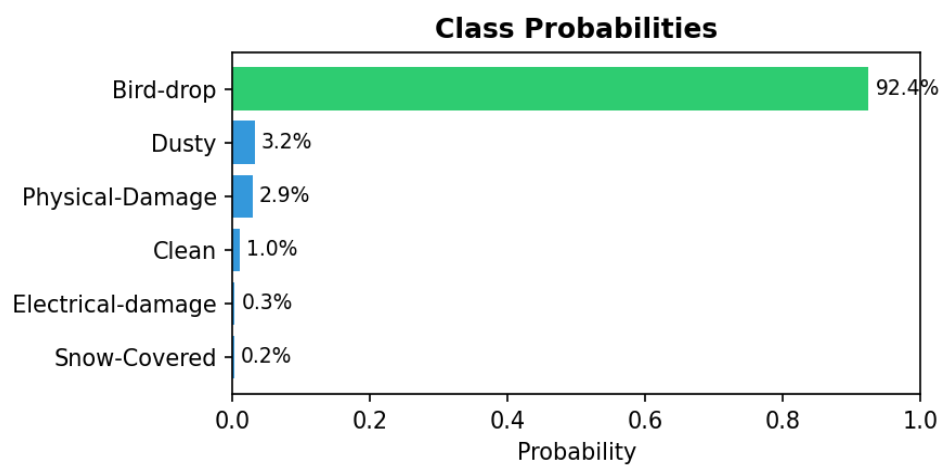
Result 3: Bird-drop_Bird (80).jpg

Predicted Class: Bird-drop

Confidence: 92.4%

Top 3 Classes:

- Bird-drop: 92.4%
- Dusty: 3.2%
- Physical-Damage: 2.9%



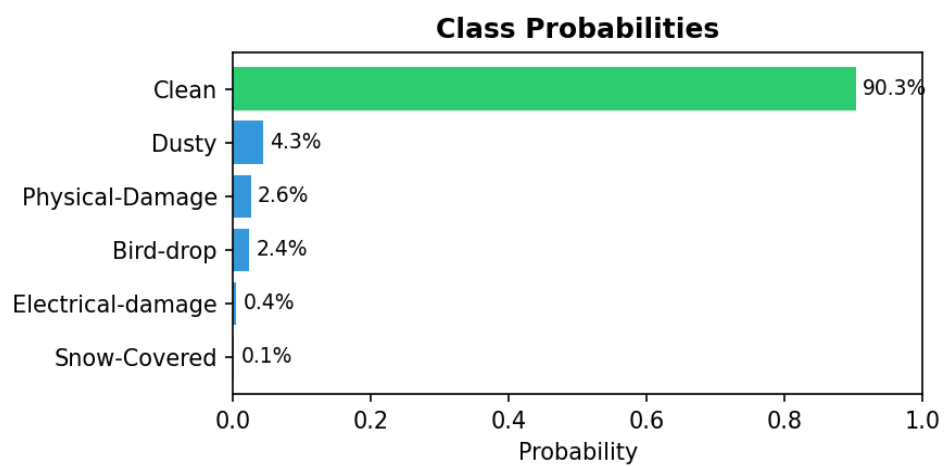
Result 4: Clean_Clean (122).jpg

Predicted Class: Clean

Confidence: 90.3%

Top 3 Classes:

- Clean: 90.3%
- Dusty: 4.3%
- Physical-Damage: 2.6%



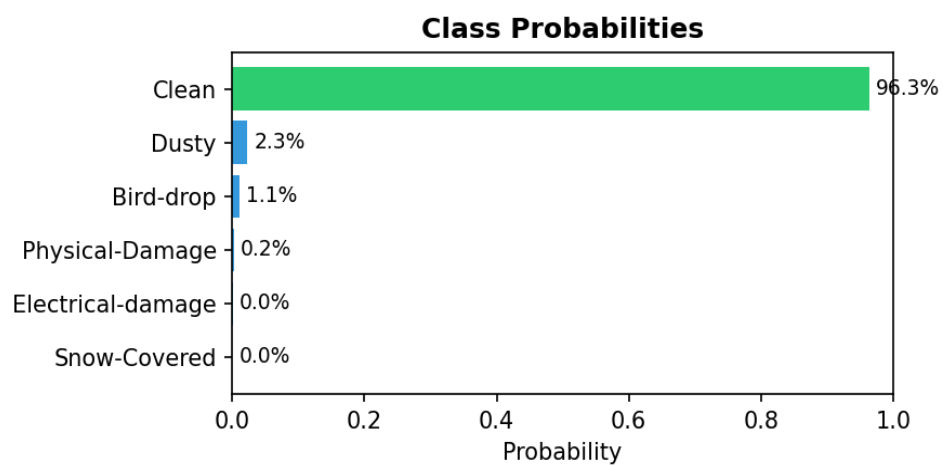
Result 5: Clean_Clean (47).jpg

Predicted Class: Clean

Confidence: 96.3%

Top 3 Classes:

- Clean: 96.3%
- Dusty: 2.3%
- Bird-drop: 1.1%



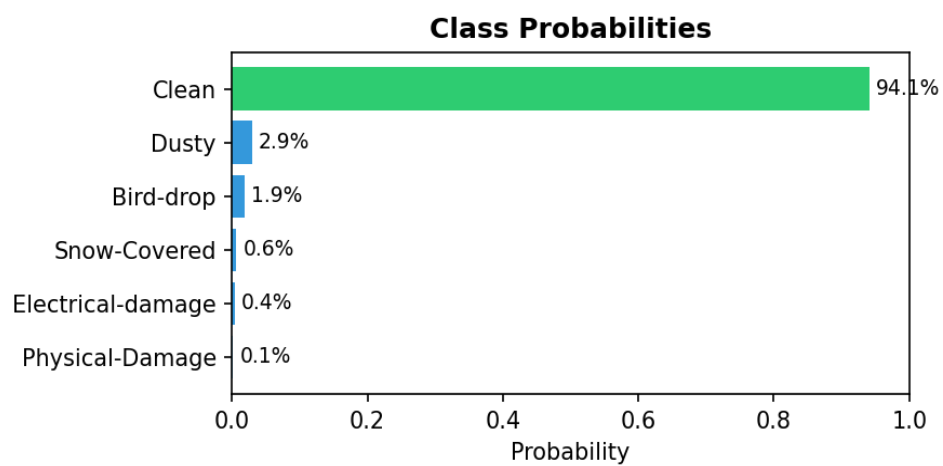
Result 6: Clean_Clean (56).jpg

Predicted Class: Clean

Confidence: 94.1%

Top 3 Classes:

- Clean: 94.1%
- Dusty: 2.9%
- Bird-drop: 1.9%



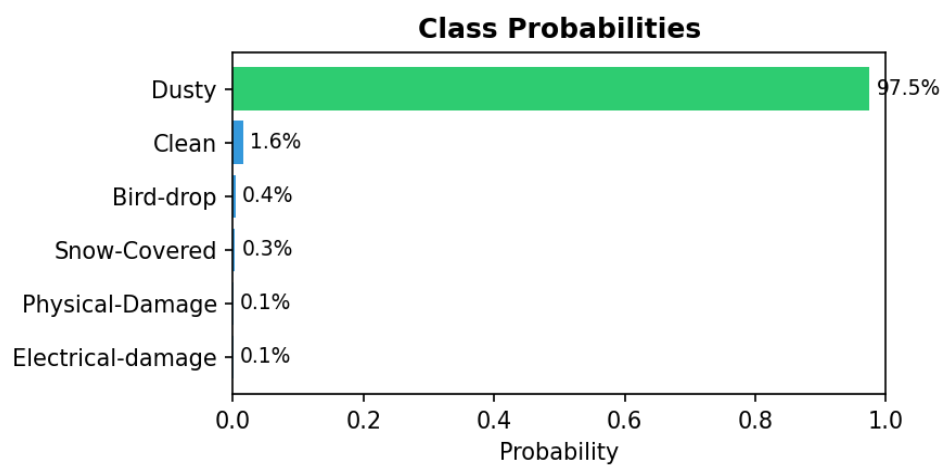
Result 7: Dusty_Dust (131).jpg

Predicted Class: Dusty

Confidence: 97.5%

Top 3 Classes:

- Dusty: 97.5%
- Clean: 1.6%
- Bird-drop: 0.4%



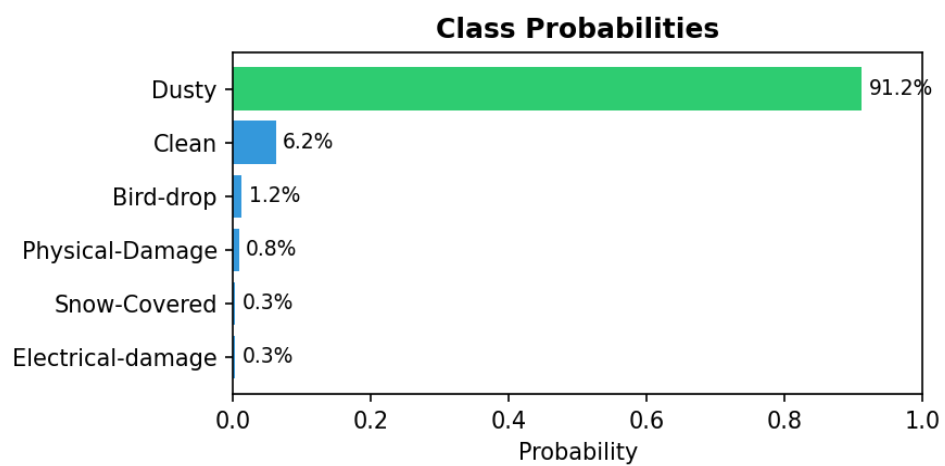
Result 8: Dusty_Dust (22).jpg

Predicted Class: Dusty

Confidence: 91.2%

Top 3 Classes:

- Dusty: 91.2%
- Clean: 6.2%
- Bird-drop: 1.2%



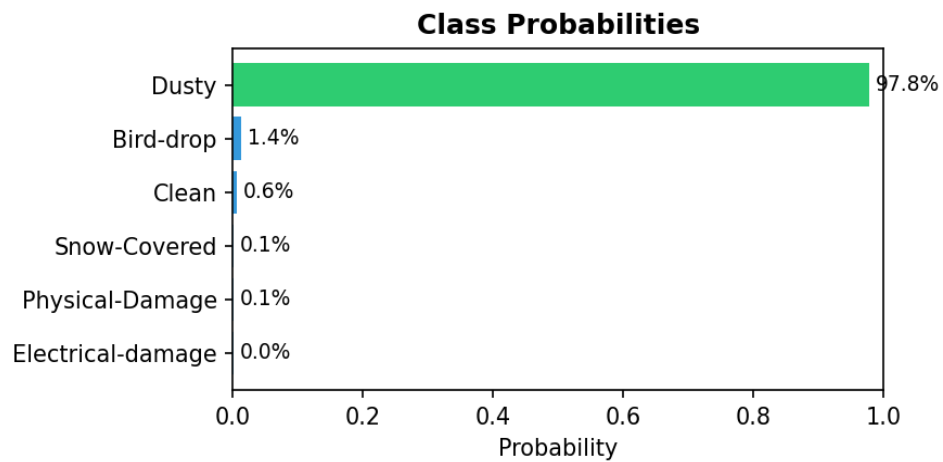
Result 9: Dusty_Dust (43).jpg

Predicted Class: Dusty

Confidence: 97.8%

Top 3 Classes:

- Dusty: 97.8%
- Bird-drop: 1.4%
- Clean: 0.6%



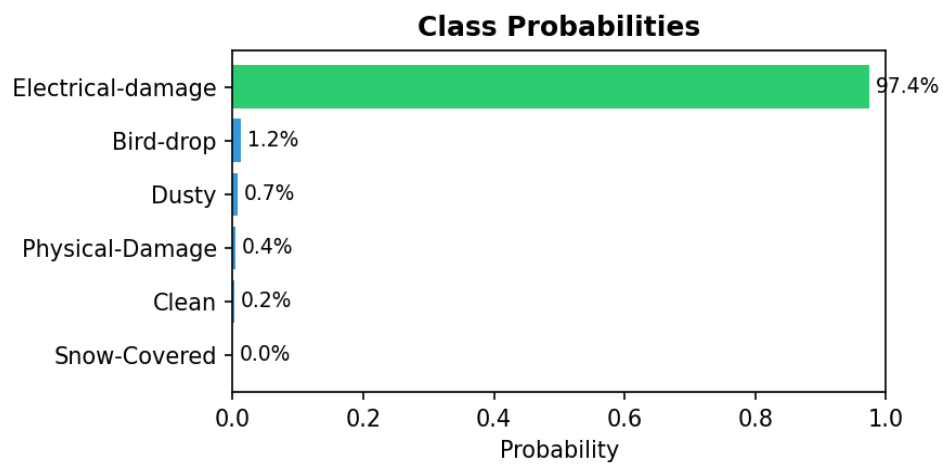
Result 10: Electrical-damage_Electrical (107).jpg

Predicted Class: Electrical-damage

Confidence: 97.4%

Top 3 Classes:

- Electrical-damage: 97.4%
- Bird-drop: 1.2%
- Dusty: 0.7%



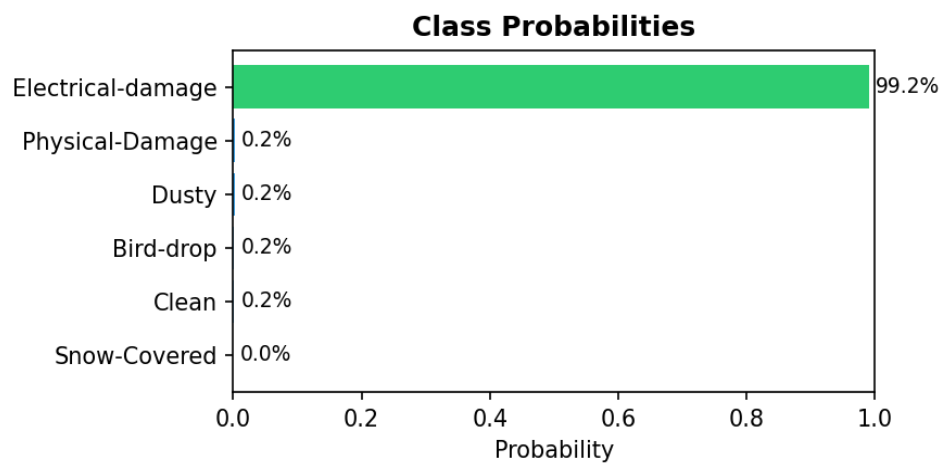
Result 11: Electrical-damage_Electrical (72).jpg

Predicted Class: Electrical-damage

Confidence: 99.2%

Top 3 Classes:

- Electrical-damage: 99.2%
- Physical-Damage: 0.2%
- Dusty: 0.2%



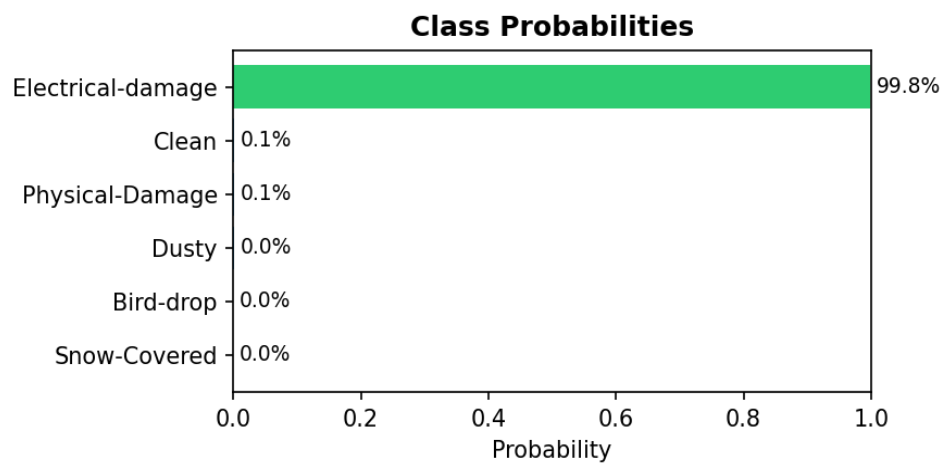
Result 12: Electrical-damage_Electrical (78).jpg

Predicted Class: Electrical-damage

Confidence: 99.8%

Top 3 Classes:

- Electrical-damage: 99.8%
- Clean: 0.1%
- Physical-Damage: 0.1%



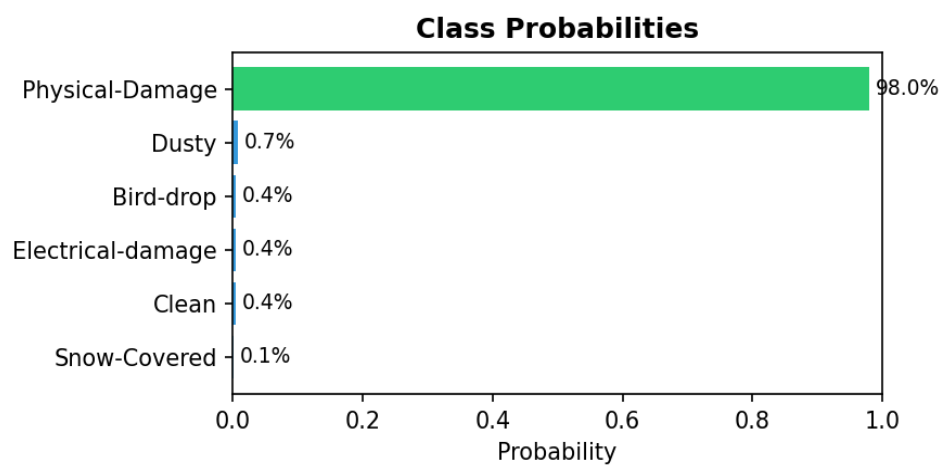
Result 13: Physical-Damage_Physical (148).jpg

Predicted Class: Physical-Damage

Confidence: 98.0%

Top 3 Classes:

- Physical-Damage: 98.0%
- Dusty: 0.7%
- Bird-drop: 0.4%



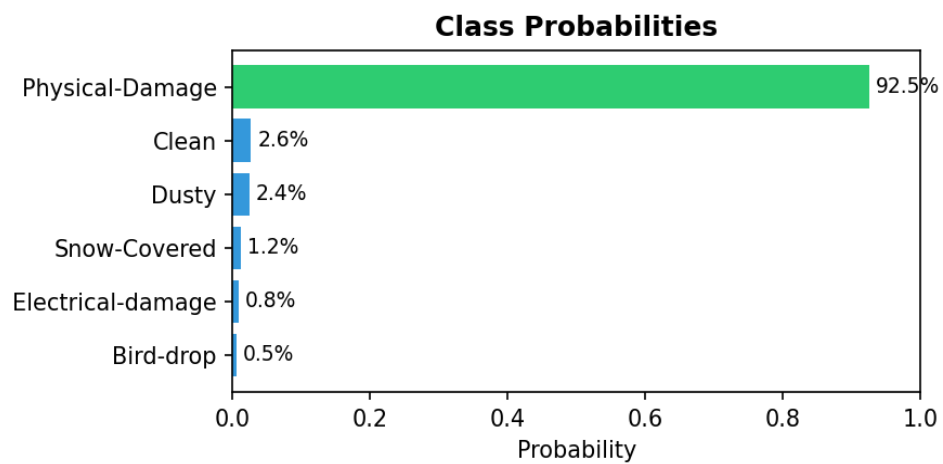
Result 14: Physical-Damage_Physical (38).jpg

Predicted Class: Physical-Damage

Confidence: 92.5%

Top 3 Classes:

- Physical-Damage: 92.5%
- Clean: 2.6%
- Dusty: 2.4%



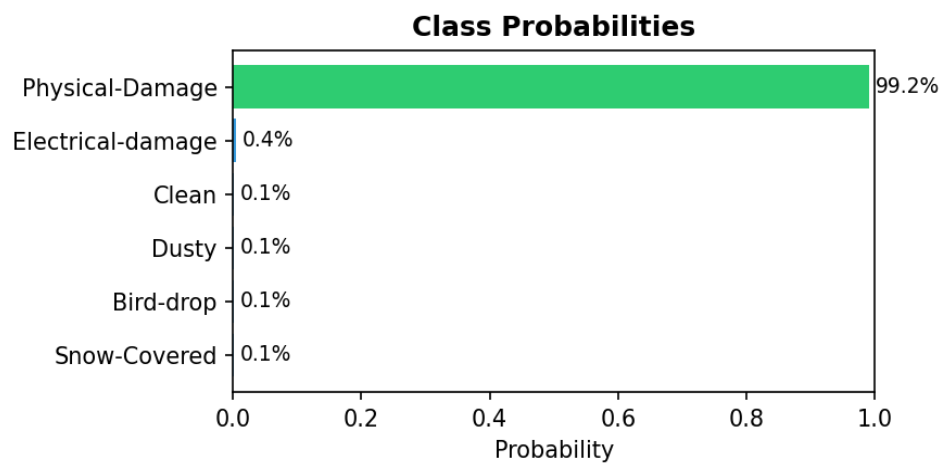
Result 15: Physical-Damage_Physical (54).jpg

Predicted Class: Physical-Damage

Confidence: 99.2%

Top 3 Classes:

- Physical-Damage: 99.2%
- Electrical-damage: 0.4%
- Clean: 0.1%



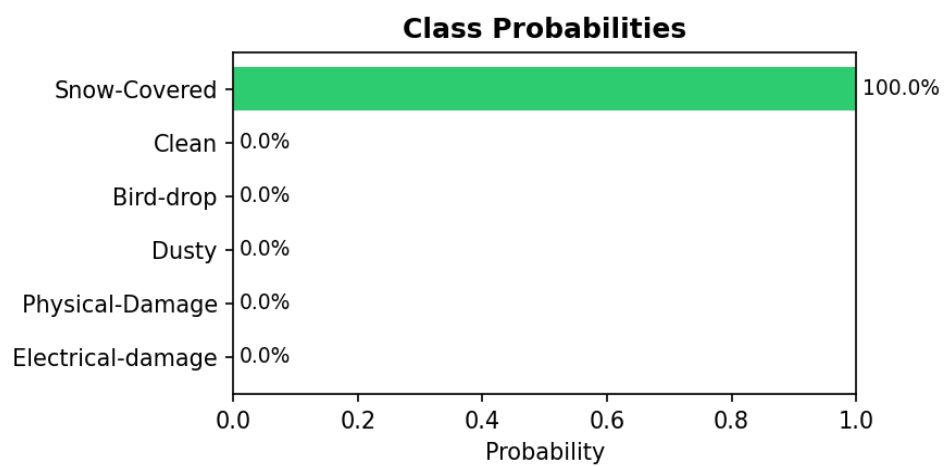
Result 16: Snow-Covered_Snow (149).jpg

Predicted Class: Snow-Covered

Confidence: 100.0%

Top 3 Classes:

- Snow-Covered: 100.0%
- Clean: 0.0%
- Bird-drop: 0.0%



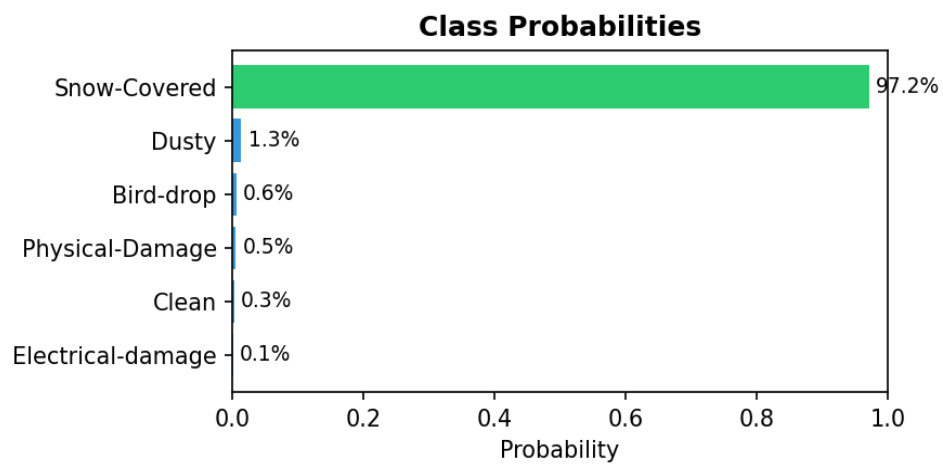
Result 17: Snow-Covered_Snow (154).jpg

Predicted Class: Snow-Covered

Confidence: 97.2%

Top 3 Classes:

- Snow-Covered: 97.2%
- Dusty: 1.3%
- Bird-drop: 0.6%



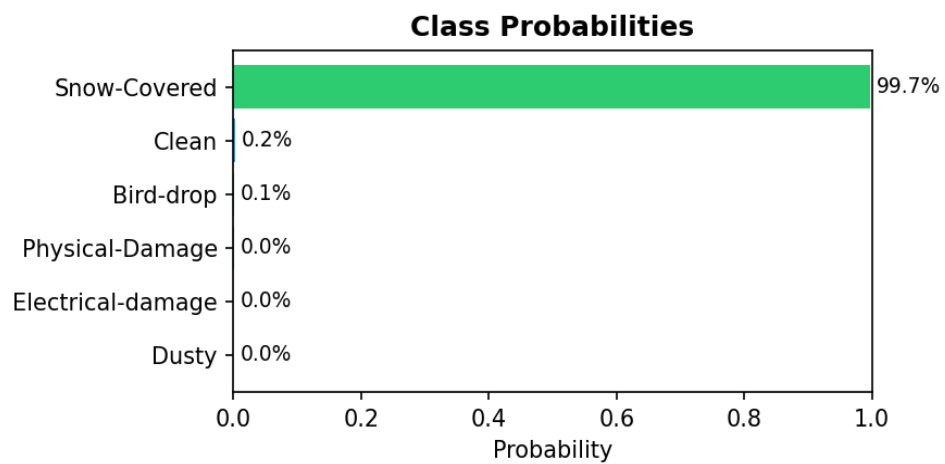
Result 18: Snow-Covered_Snow (173).jpg

Predicted Class: Snow-Covered

Confidence: 99.7%

Top 3 Classes:

- Snow-Covered: 99.7%
- Clean: 0.2%
- Bird-drop: 0.1%



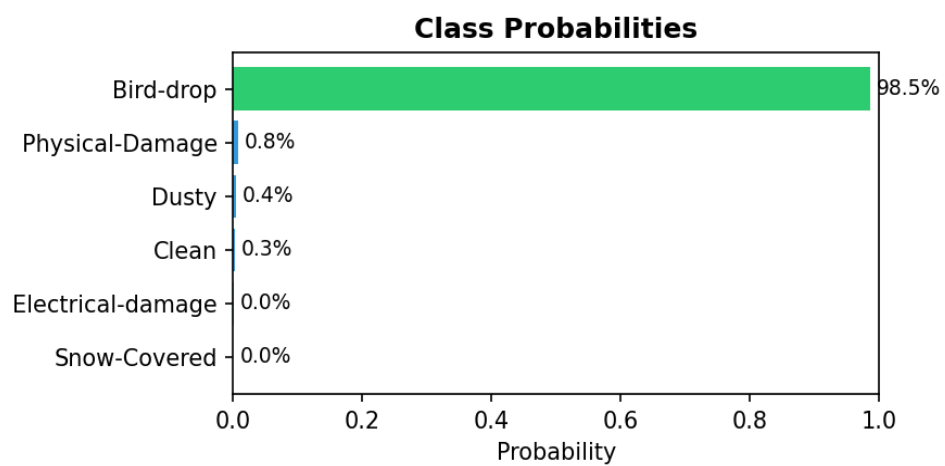
Result 19: Bird-drop_Bird (159).jpg

Predicted Class: Bird-drop

Confidence: 98.5%

Top 3 Classes:

- Bird-drop: 98.5%
- Physical-Damage: 0.8%
- Dusty: 0.4%



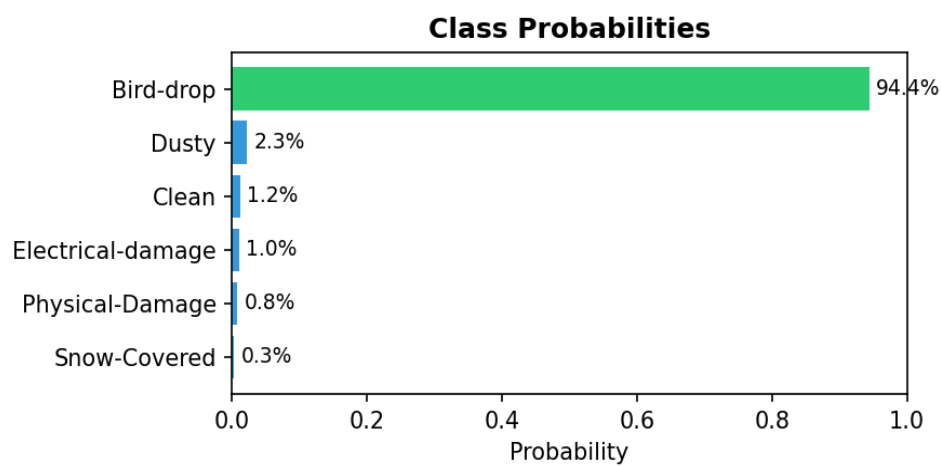
Result 20: Bird-drop_Bird (179).JPG

Predicted Class: Bird-drop

Confidence: 94.4%

Top 3 Classes:

- Bird-drop: 94.4%
- Dusty: 2.3%
- Clean: 1.2%



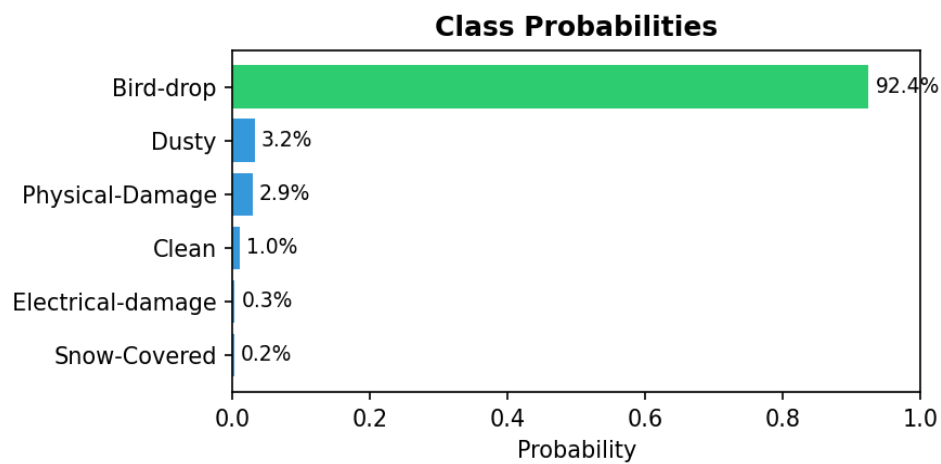
Result 21: Bird-drop_Bird (80).jpg

Predicted Class: Bird-drop

Confidence: 92.4%

Top 3 Classes:

- Bird-drop: 92.4%
- Dusty: 3.2%
- Physical-Damage: 2.9%



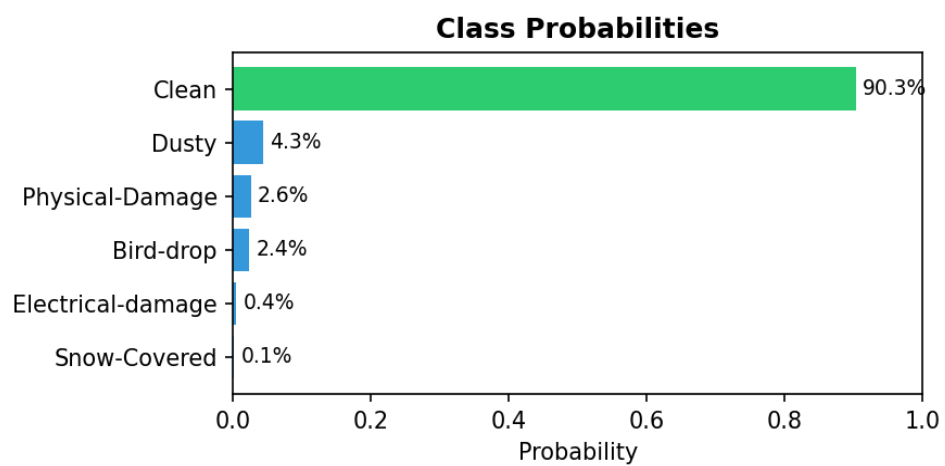
Result 22: Clean_Clean (122).jpg

Predicted Class: Clean

Confidence: 90.3%

Top 3 Classes:

- Clean: 90.3%
- Dusty: 4.3%
- Physical-Damage: 2.6%



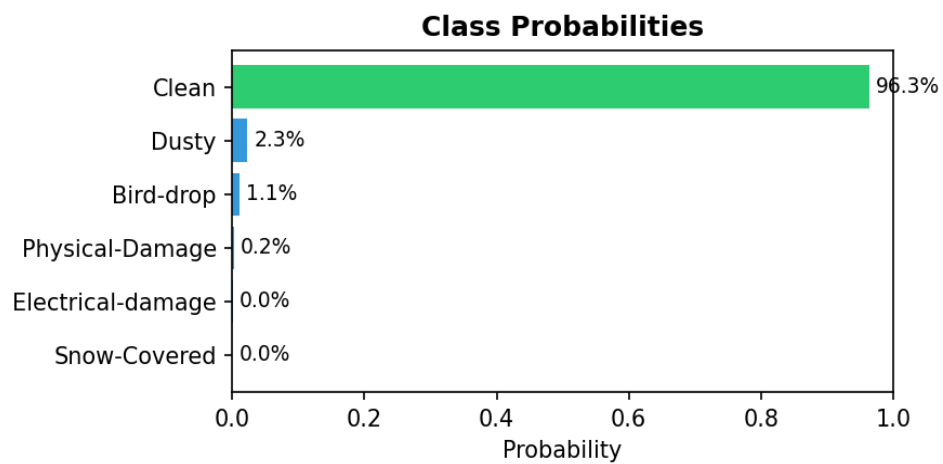
Result 23: Clean_Clean (47).jpg

Predicted Class: Clean

Confidence: 96.3%

Top 3 Classes:

- Clean: 96.3%
- Dusty: 2.3%
- Bird-drop: 1.1%



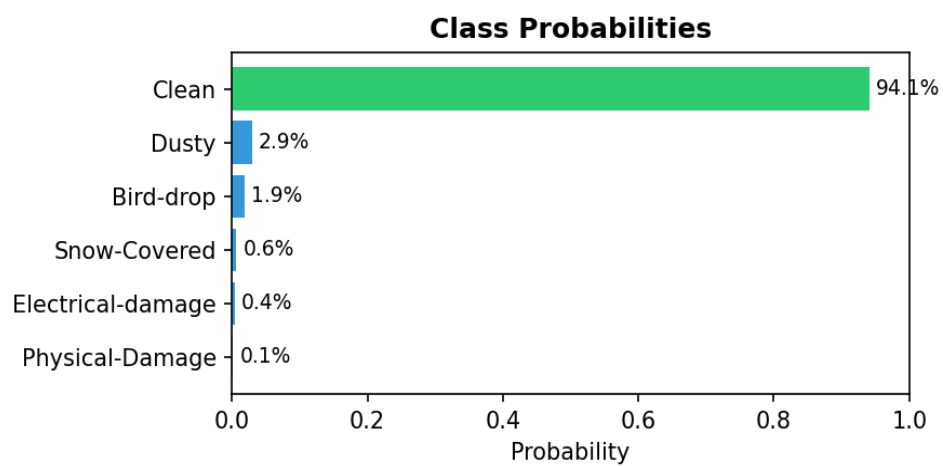
Result 24: Clean_Clean (56).jpg

Predicted Class: Clean

Confidence: 94.1%

Top 3 Classes:

- Clean: 94.1%
- Dusty: 2.9%
- Bird-drop: 1.9%



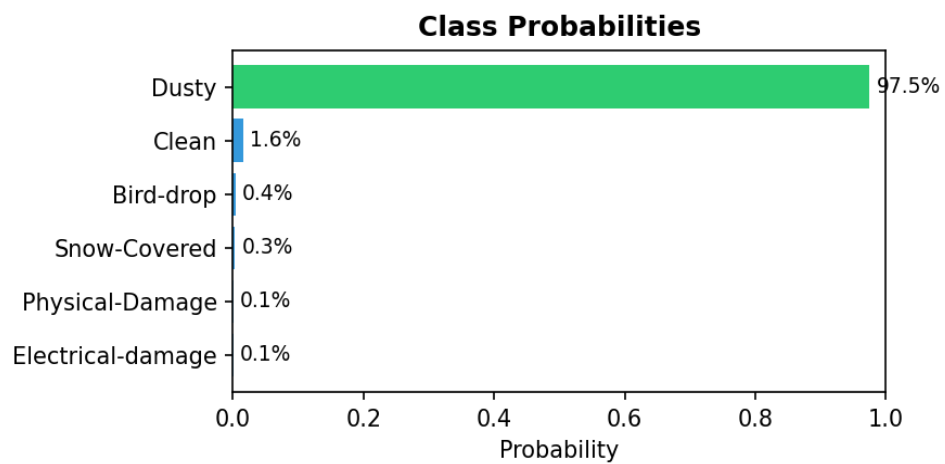
Result 25: Dusty_Dust (131).jpg

Predicted Class: Dusty

Confidence: 97.5%

Top 3 Classes:

- Dusty: 97.5%
- Clean: 1.6%
- Bird-drop: 0.4%



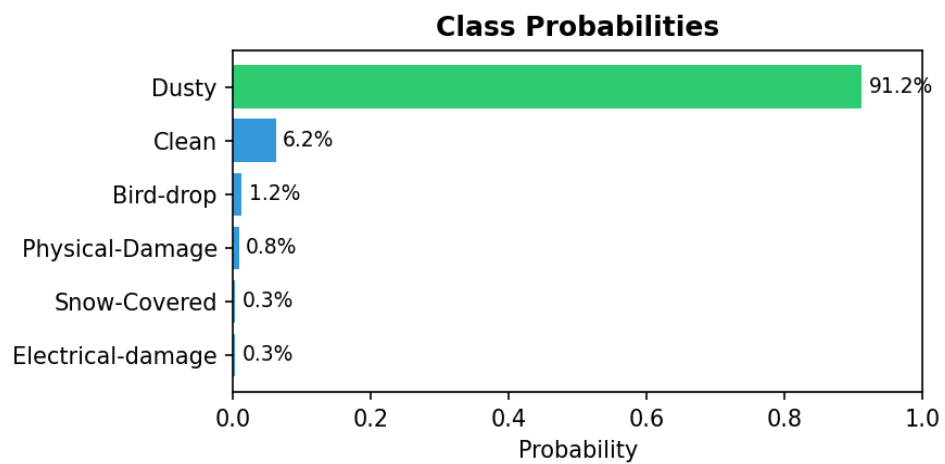
Result 26: Dusty_Dust (22).jpg

Predicted Class: Dusty

Confidence: 91.2%

Top 3 Classes:

- Dusty: 91.2%
- Clean: 6.2%
- Bird-drop: 1.2%



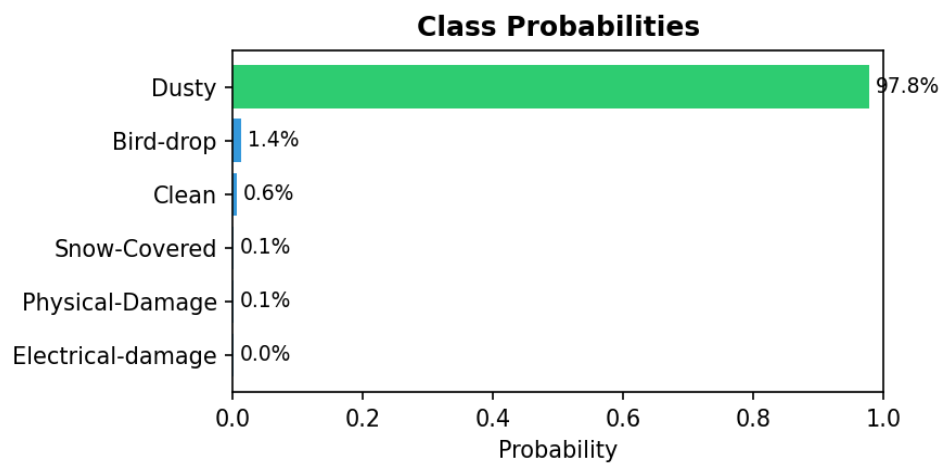
Result 27: Dusty_Dust (43).jpg

Predicted Class: Dusty

Confidence: 97.8%

Top 3 Classes:

- Dusty: 97.8%
- Bird-drop: 1.4%
- Clean: 0.6%



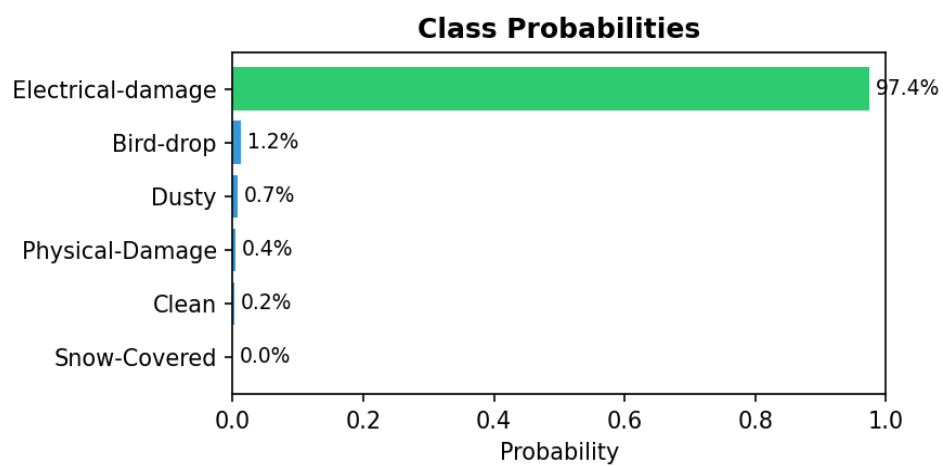
Result 28: Electrical-damage_Electrical (107).jpg

Predicted Class: Electrical-damage

Confidence: 97.4%

Top 3 Classes:

- Electrical-damage: 97.4%
- Bird-drop: 1.2%
- Dusty: 0.7%



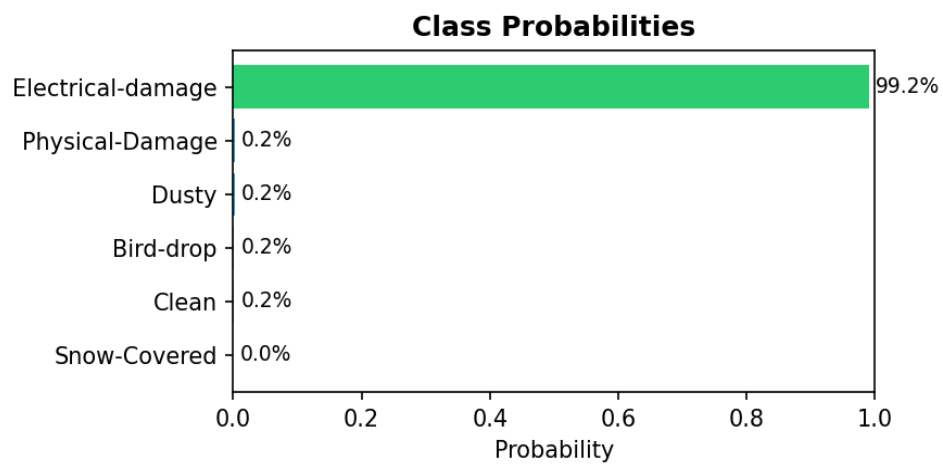
Result 29: Electrical-damage_Electrical (72).jpg

Predicted Class: Electrical-damage

Confidence: 99.2%

Top 3 Classes:

- Electrical-damage: 99.2%
- Physical-Damage: 0.2%
- Dusty: 0.2%



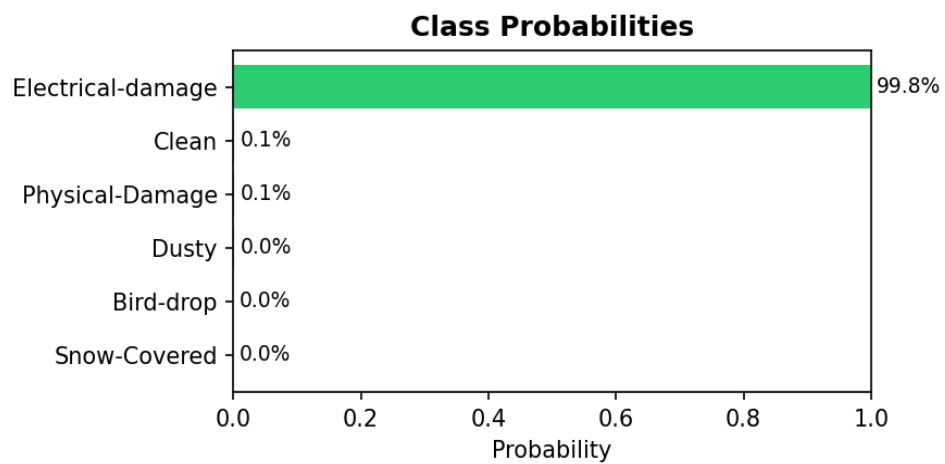
Result 30: Electrical-damage_Electrical (78).jpg

Predicted Class: Electrical-damage

Confidence: 99.8%

Top 3 Classes:

- Electrical-damage: 99.8%
- Clean: 0.1%
- Physical-Damage: 0.1%



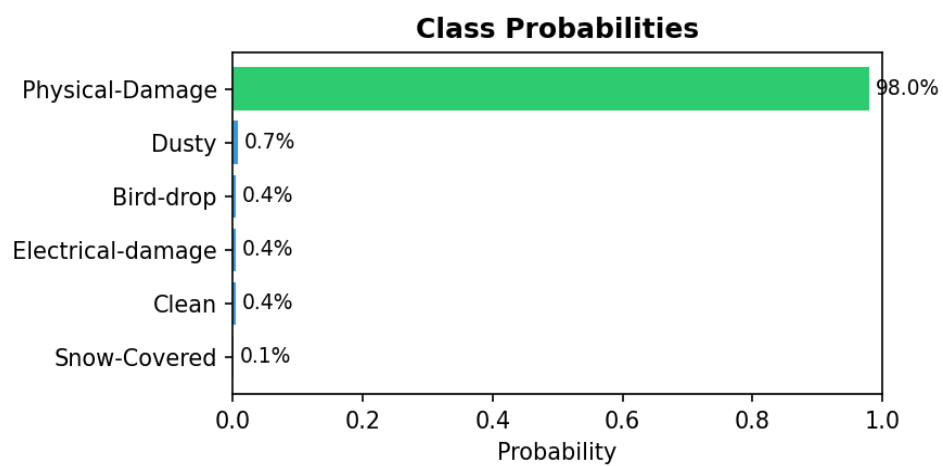
Result 31: Physical-Damage_Physical (148).jpg

Predicted Class: Physical-Damage

Confidence: 98.0%

Top 3 Classes:

- Physical-Damage: 98.0%
- Dusty: 0.7%
- Bird-drop: 0.4%



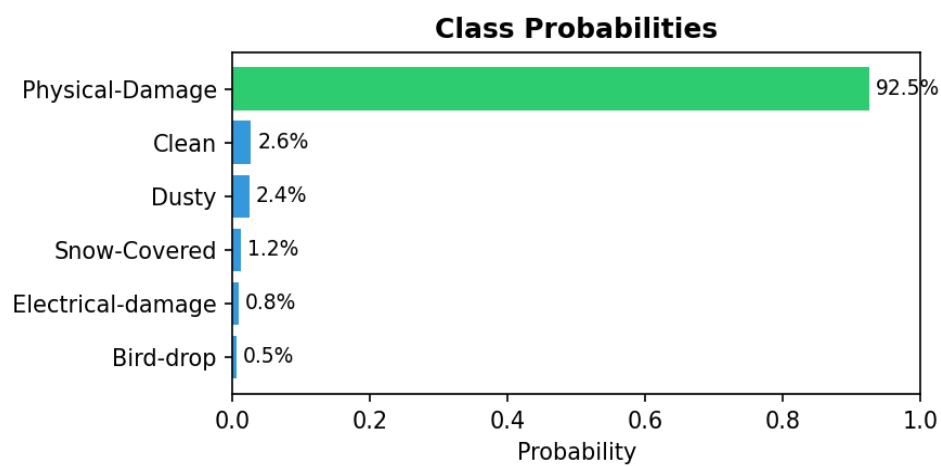
Result 32: Physical-Damage_Physical (38).jpg

Predicted Class: Physical-Damage

Confidence: 92.5%

Top 3 Classes:

- Physical-Damage: 92.5%
- Clean: 2.6%
- Dusty: 2.4%



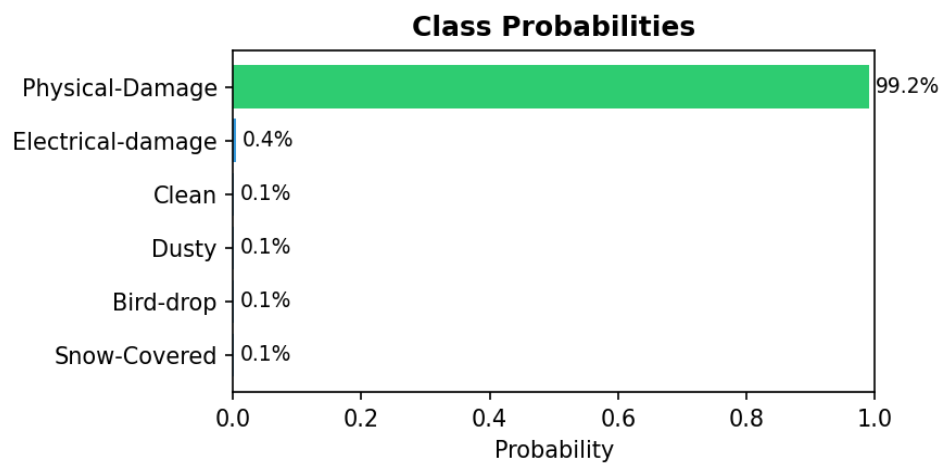
Result 33: Physical-Damage_Physical (54).jpg

Predicted Class: Physical-Damage

Confidence: 99.2%

Top 3 Classes:

- Physical-Damage: 99.2%
- Electrical-damage: 0.4%
- Clean: 0.1%



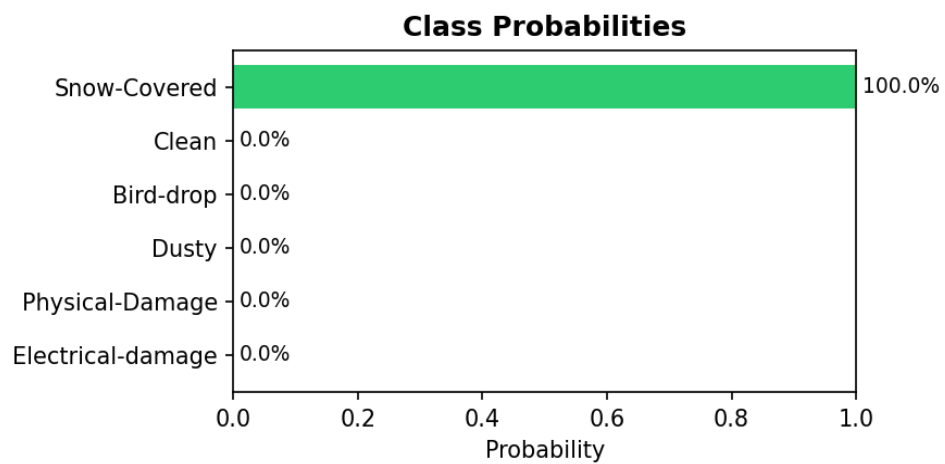
Result 34: Snow-Covered_Snow (149).jpg

Predicted Class: Snow-Covered

Confidence: 100.0%

Top 3 Classes:

- Snow-Covered: 100.0%
- Clean: 0.0%
- Bird-drop: 0.0%



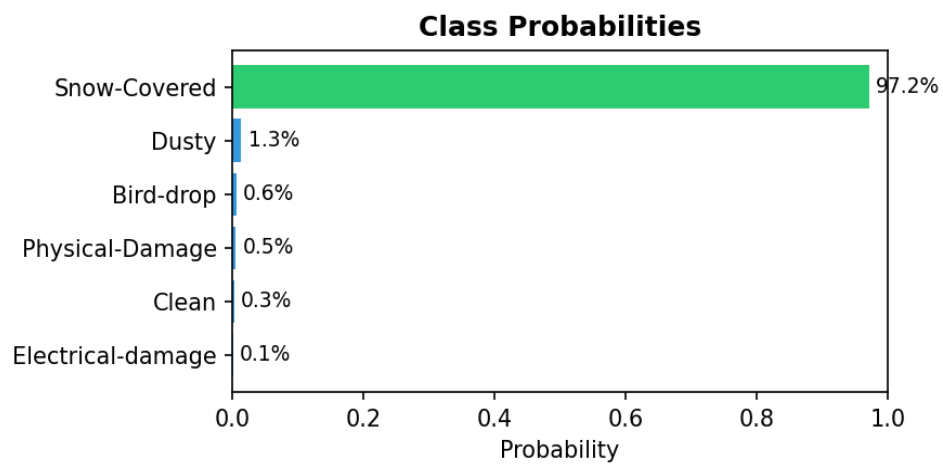
Result 35: Snow-Covered_Snow (154).jpg

Predicted Class: Snow-Covered

Confidence: 97.2%

Top 3 Classes:

- Snow-Covered: 97.2%
- Dusty: 1.3%
- Bird-drop: 0.6%



Result 36: Snow-Covered_Snow (173).jpg

Predicted Class: Snow-Covered

Confidence: 99.7%

Top 3 Classes:

- Snow-Covered: 99.7%
- Clean: 0.2%
- Bird-drop: 0.1%

