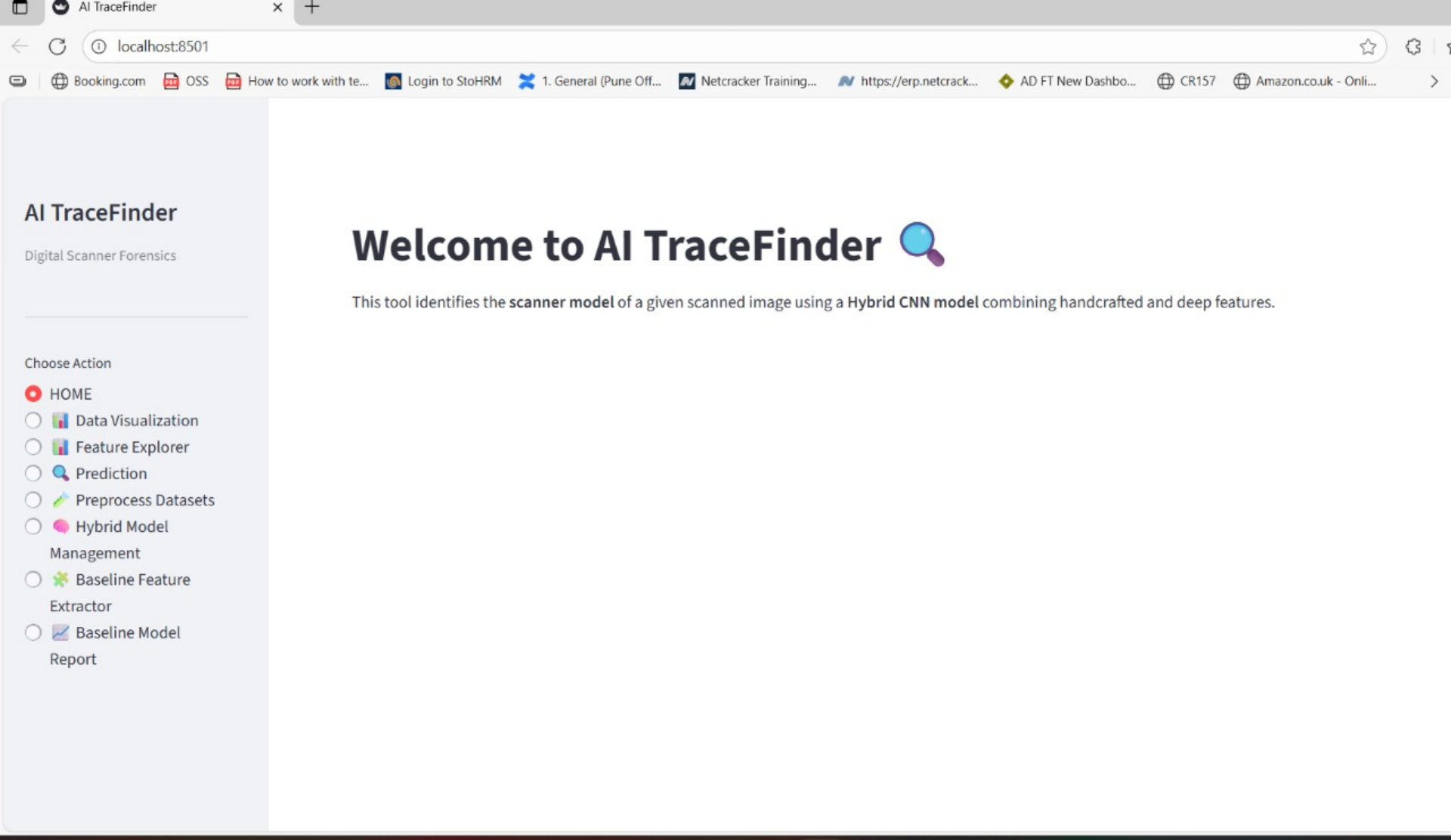
AI TraceFinder
localhost:8501
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AI TraceFinder
Digital Scanner Forensics
Choose Action
HOME
Data Visualization
Feature Explorer
Prediction
Preprocess Datasets
Hybrid Model Management
Baseline Feature Extractor
Baseline Model Report
Welcome to AI TraceFinder
This tool identifies the scanner model of a given scanned image using a Hybrid CNN model combining handcrafted and deep features.

AI TraceFinder

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Digital Scanner Forensics

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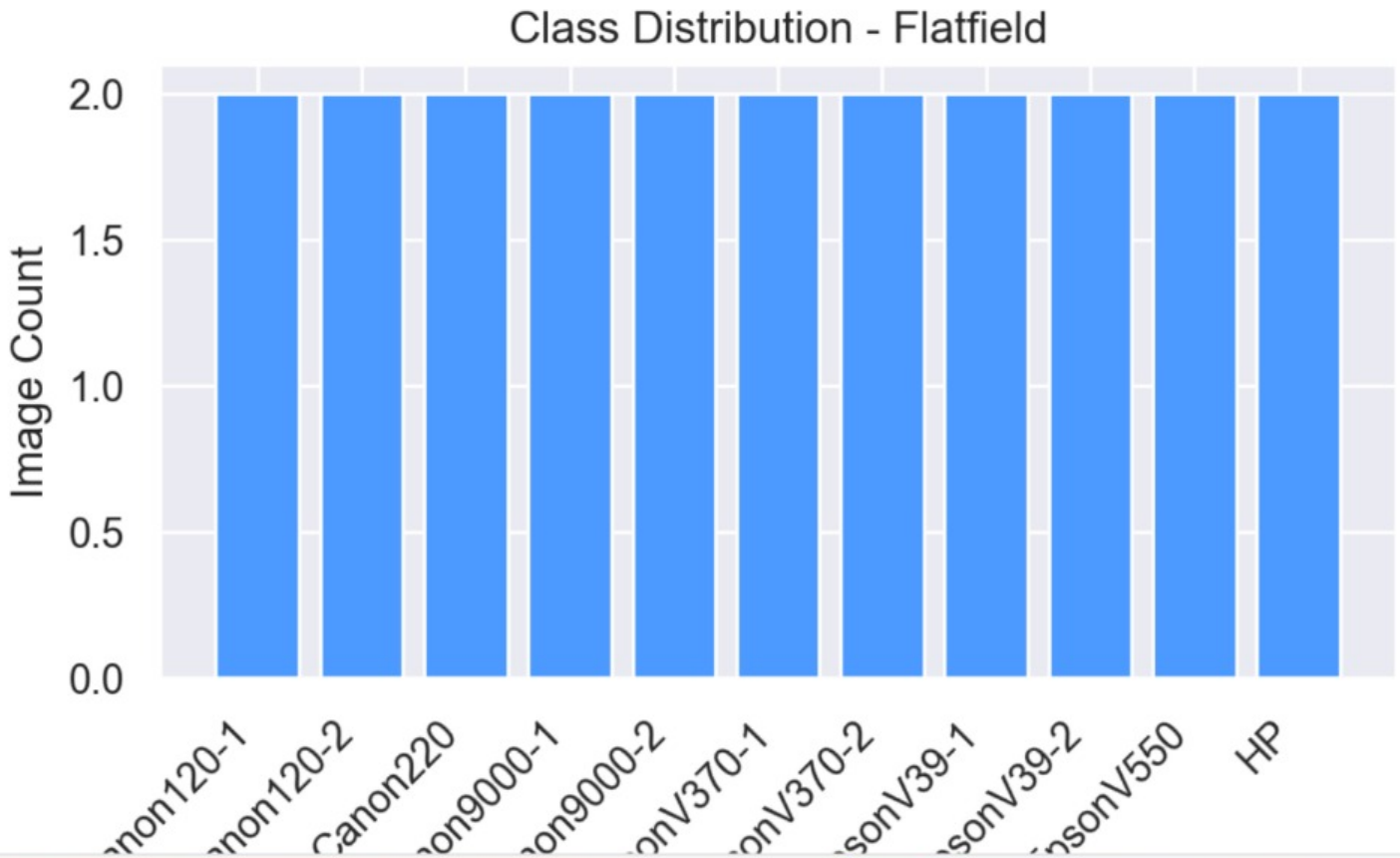

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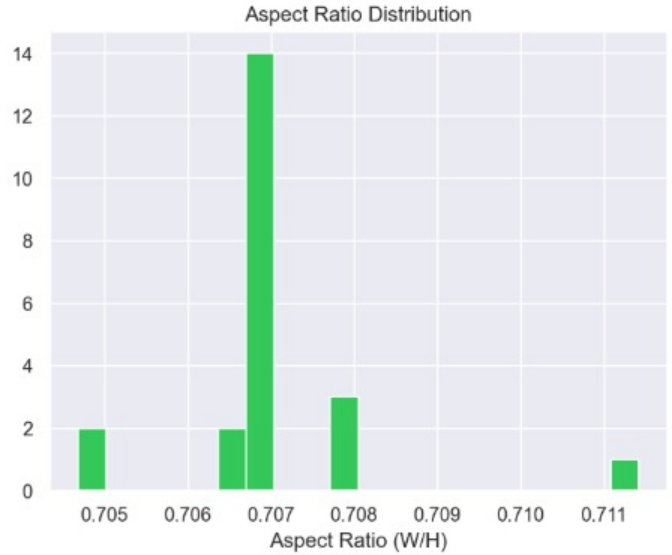

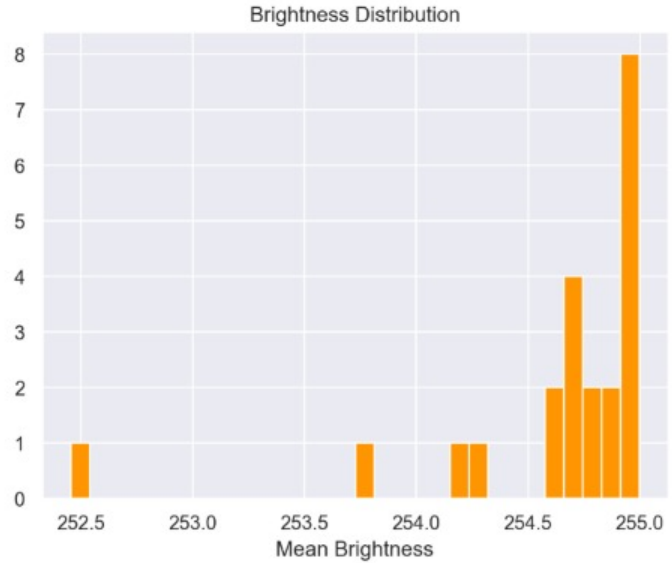

⚠ Data Quality Issues

1 corrupted images found.

🎯 Random Samples from Each Class

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16:49
03-11-2025

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Select Dataset

Official

Scanning `Official` dataset (recursive)...

Class-wise Image Count (Recursive)

	Class Name	Image Count	% of Total
0	Canon120-1 (1)	200	10
1	Canon120-2 (1)	200	10
2	Canon220 (1)	200	10
3	Canon9000-1 (1)	200	10
4	Canon9000-2 (1)	200	10
5	EpsonV370-1 (1)	200	10
6	EpsonV370-2 (1)	200	10
7	EpsonV39-1 (1)	200	10
8	EpsonV39-2 (1)	200	10
9	EpsonV550 (1)	200	10

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Total Images	Corrupted Images	Duplicate Images
2000	0	0

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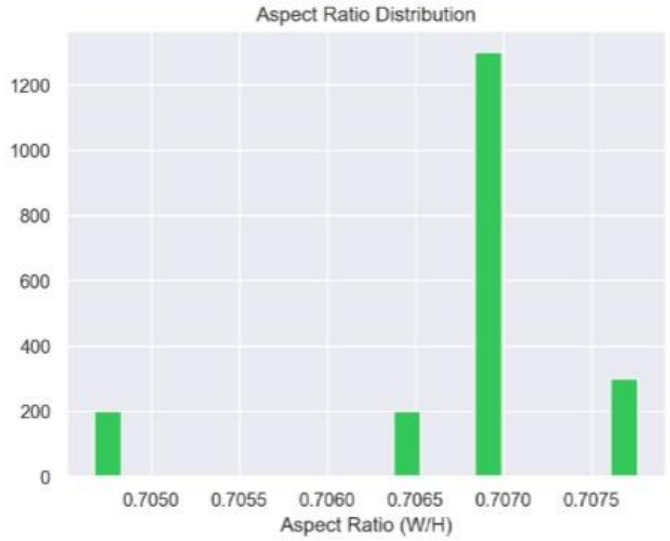
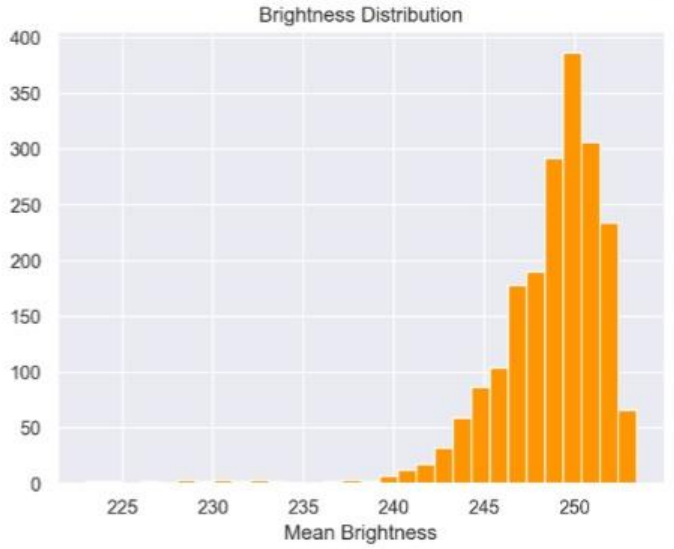
- Baseline Model Report

Canon120-1 Canon120-2 Canon220 Canon9000-1 Canon9000-2 EpsonV370-1 EpsonV370-2 EpsonV39-1 EpsonV39-2 EpsonV550 manifes





32°C Mostly sunny

Search

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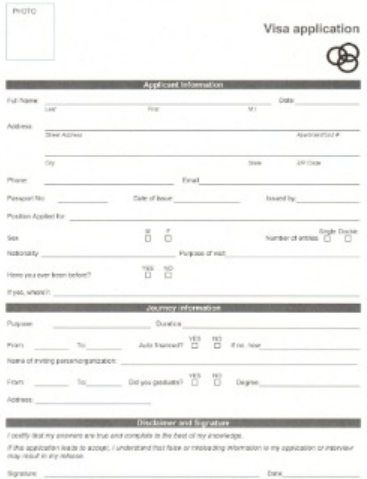
- Baseline Model Report

🎯 Random Samples from Each Class

📁 Canon120-1 (1) (200 images)

s1_67.tif

s1_27.tif



s1_10.tif

Deploy

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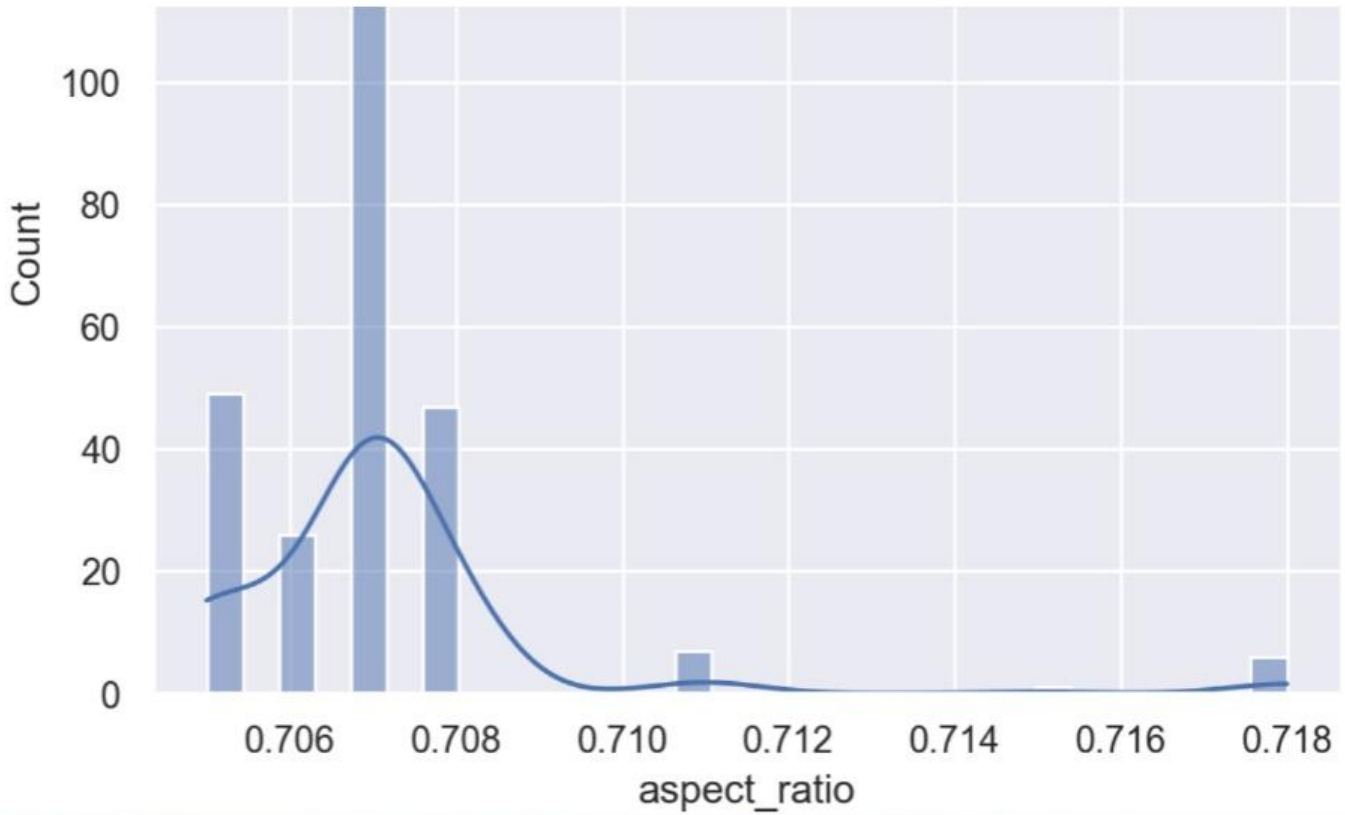

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AI TraceFinder

Digital Scanner Forensics

Choose Action

- HOME
- Data Visualization
- Feature Explorer
- Predict Scanner
- Preprocess Datasets
- Train Models
- Evaluate Models
- Batch Scanner Testing

Evaluate Models

Evaluate Random Forest

Random Forest Classification Report

	precision	recall	f1-score	support
Official/Canon120-1/150	0.88	0.88	0.88	24
Official/Canon120-1/300	1.00	0.80	0.89	5
Official/Canon120-2/150	0.86	0.75	0.80	8
Official/Canon220/150	0.75	0.80	0.77	15
Official/Canon220/300	0.67	1.00	0.80	2
Official/Canon9000-1/150	1.00	1.00	1.00	14
Official/Canon9000-2/150	1.00	0.95	0.98	21
Official/Canon9000-2/300	1.00	0.88	0.93	16
Official/EpsonV370-1/150	0.81	0.89	0.85	19
Official/EpsonV370-2/150	0.93	0.87	0.90	30
Official/EpsonV370-2/300	1.00	1.00	1.00	2
Official/EpsonV39-1/150	0.79	0.79	0.79	14
Official/EpsonV39-1/300	0.79	0.86	0.82	21
Official/EpsonV39-2/150	0.84	0.88	0.86	24
Official/EpsonV39-2/300	[illegible]	[illegible]	[illegible]	[illegible]

Finder

Forensics

Visualization
re Explorer
ct Scanner
rocess Datasets
Models
ate Models
n Scanner Testing

Evaluate SVM

Evaluate Hybrid CNN

Run Hybrid Evaluation

Evaluate Hybrid CNN

Running hybrid model predictions (this may take a while)...

Hybrid Test Accuracy: 72.94%

Classification Report:

	precision	recall	f1-score	support
Canon120-1	0.44	0.49	0.46	416
Canon120-2	0.55	0.49	0.52	416
Canon220	0.81	0.78	0.80	416
Canon9000-1	0.96	0.73	0.83	416
Canon9000-2	0.78	0.96	0.86	407
EpsonV370-1	0.82	0.92	0.86	416
EpsonV370-2	0.91	0.75	0.82	417