

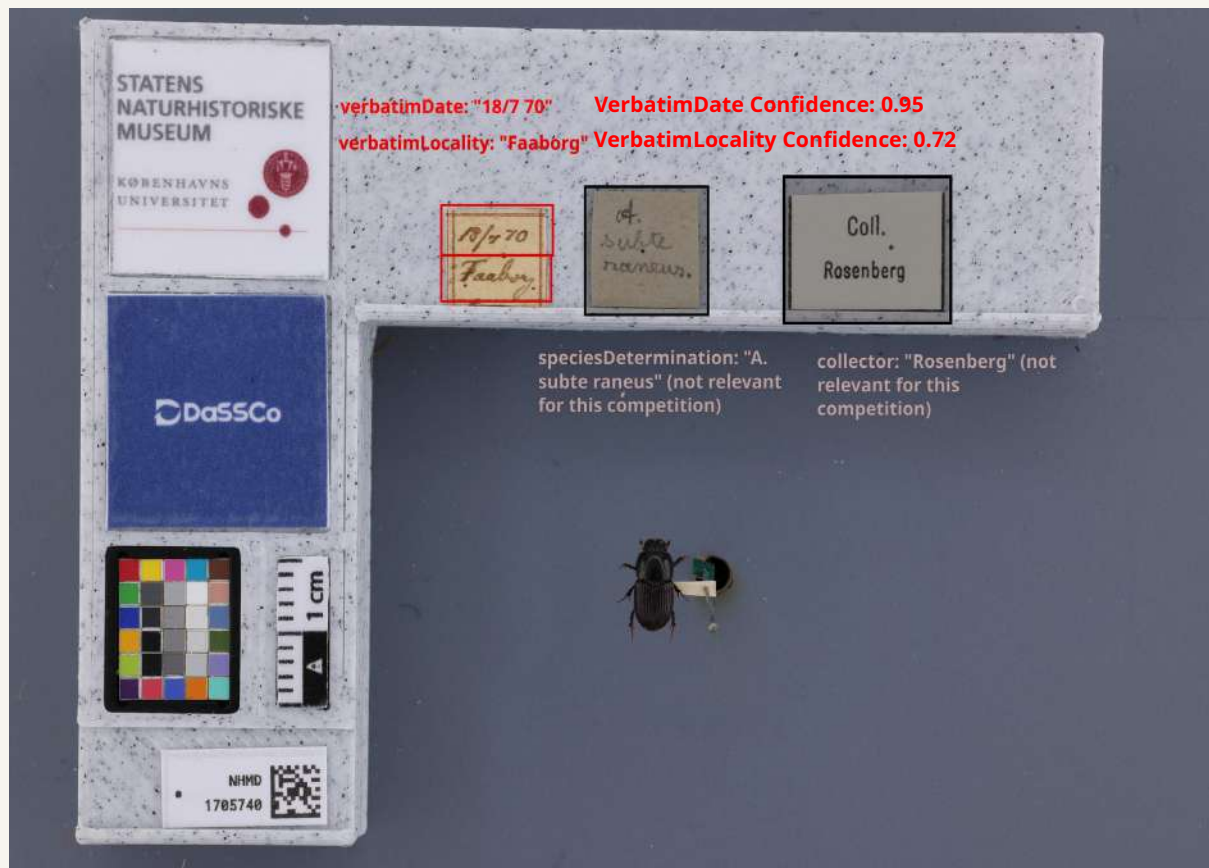
MuseumSCAT

Specimen Collection Annotation Task

Can AI recover scientifically useful collection metadata from historical museum labels of danish dung beetles — and know when a human should still check?



The task: extract two fields, verbatim, with confidence score



Inputs

3,500 digitized pinned specimen images
Only 200 labelled training examples
3,300 test images

Outputs

verbatimDate
"18/7 70"

verbatimLocality
"Faaborg"

VerbatimDate Confidence
0.95

VerbatimLocality Conf.
0.72

Why this is harder than OCR (or so I thought)



- Historic Spelling
- Inconsistent formats
- Confounding info
- Multiples
- Mixture of handwritten and machine written



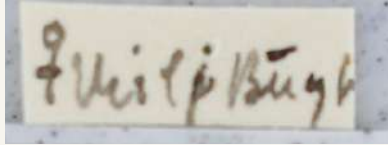
Result

Top 5 solutions had less than 1% Area Under Risk Coverage Curve (Nearly Perfect!)

#	△	Team	Members	Score	Entries	Last	Solution
1	—	Bull		0.00416	62	11d	
2	▲ 1	KousHik Rudra	 	0.00549	65	11d	
3	▼ 1	Hanif Noer Rofiq		0.00554	86	9d	
4	—	Octavi Grau		0.00691	55	16d	
5	—	zigiella		0.00912	58	9d	

What we learnt

Top 1 and top 4 result both used large VLMs, Google Gemini 3.7 in particular



VerbatimDate: "MISSING" Conf: 1.0
VerbatimLocality: "**Hvilsager**" Conf: 0.95
(Gemini 3.5)



VerbatimDate: "**4/5 70**" Conf: 0.9
VerbatimLocality: "**Bekkes**" Conf: 0.8
(Gemini 3.5)



VerbatimDate: "MISSING" Conf: 1.0
VerbatimLocality: "**Kb**" Conf: 0.9
(Gemini 3.5)

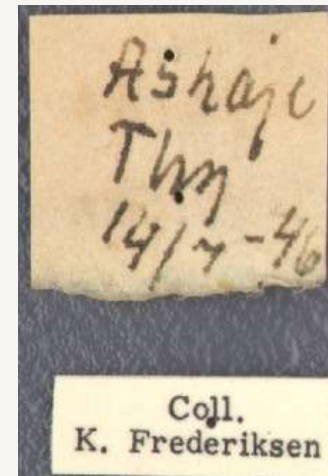


VerbatimDate: "**9-5-1914**" Conf: 0.95
VerbatimLocality: "**Vamdrup**" Conf: 1.0
(Gemini 3.5)



VerbatimDate: "**11-7-43**" Conf: 0.95
VerbatimLocality: "**Klosterhede, Dania**"
Conf: 0.95

(Gemini 3.5)
VerbatimDate: "**14/7 -46**" Conf: 0.95
VerbatimLocality: "**Ashøje / Thm**" Conf: 0.95
(Gemini 3.5)



Acknowledgments

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Kaggle for hosting the challenge

All the **kaggle participants**, especially those who put up their solutions

ECCV for hosting this workshop and **DTU/KU** for organizing it