



THE MET HIGHLIGHTS

PREDICTING METROPOLITAN MUSEUM'S HIGHLIGHTING STRATEGY

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Highlights of the Collection



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O1

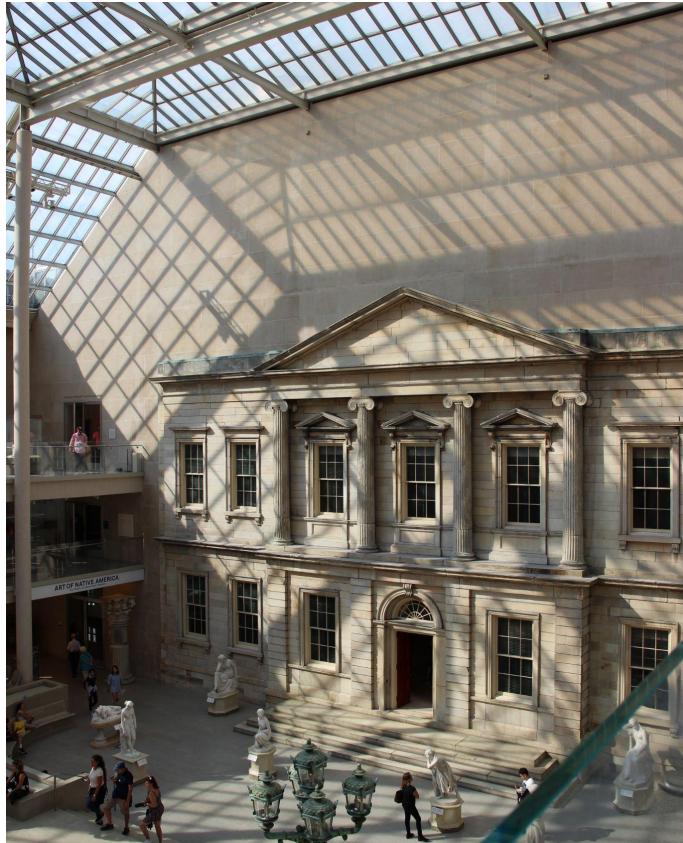
Background

Patronage

GOAL:
Visibility

TRYING TO MEASURE:
Chances of
An object being highlighted
Given that it is donated to the museum





02 Solution

Dataset:

- Met Museum Open Access CSV
- (448, 203 objects)
- (43 features)

Departments:

- 20
- 4 different collecting practices

4 Groups:

1.

Egyptian Art

3.

Ancient

(5 departments)

2.

Categorical

(7 departments)

4.

Modern

(7 departments)

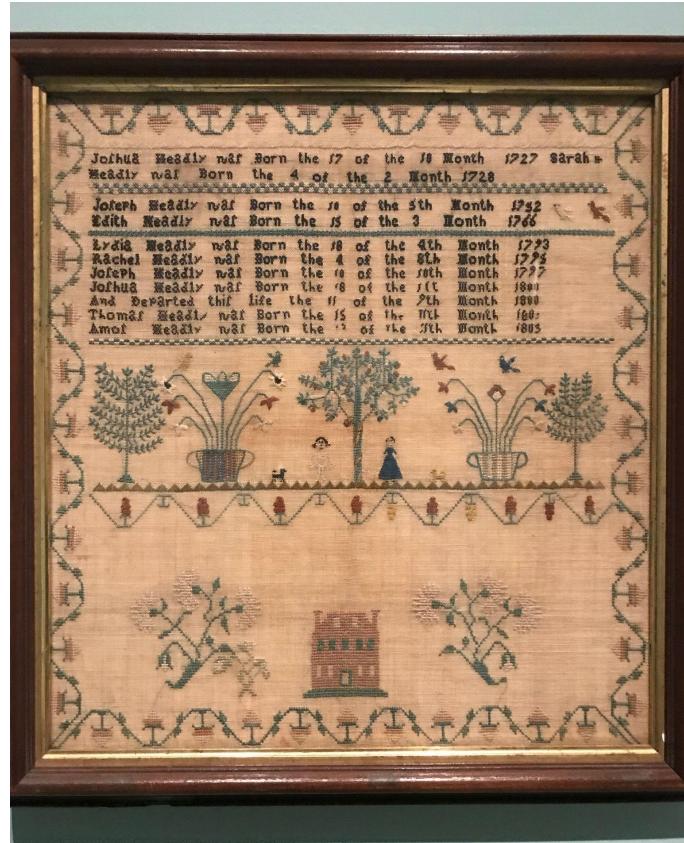
Modern

- 215, 649 objects
- Features include:

Department
Object Name
Artist Role
Artist Nationality
Object Date
Medium
Classification
(35 engineered features)

Patronage Barometer

	Predicted: No highlight	Predicted: Highlight
Actually Not highlighted	You know, Stuff happens	OH NO! 
Actually Highlighted	Love our patrons 	YAY! 



03

Predictive Model

Class Imbalance

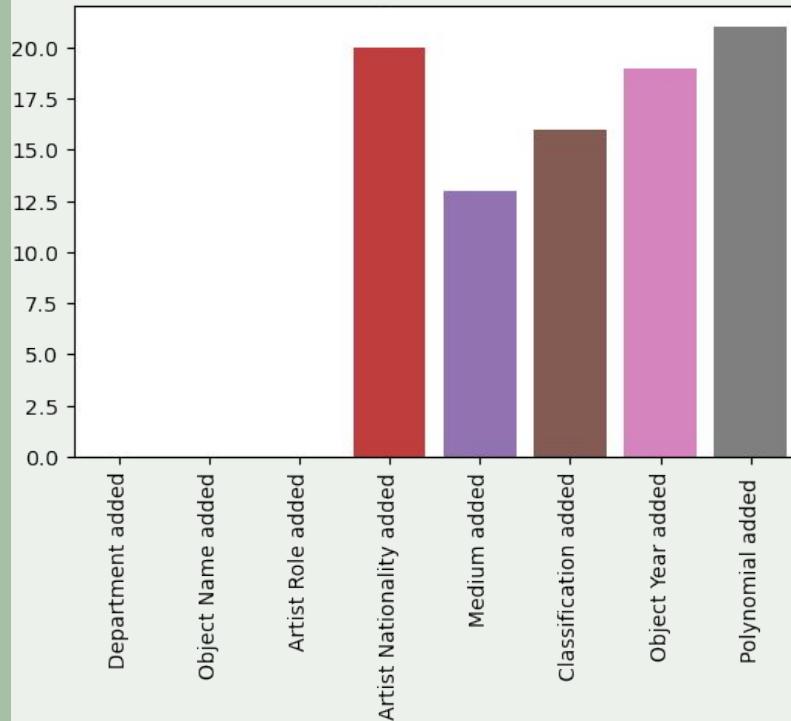
750

HIGHLIGHTED

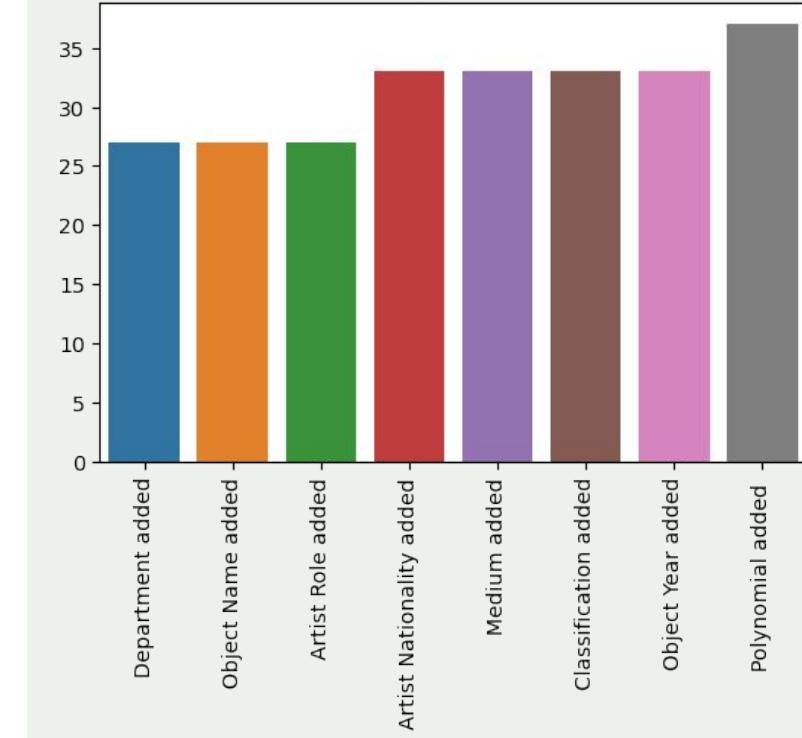
214,899

NOT HIGHLIGHTED

FP numbers by feature addition



TP numbers by feature addition



Scores

Precision Score

Train: **0.64**

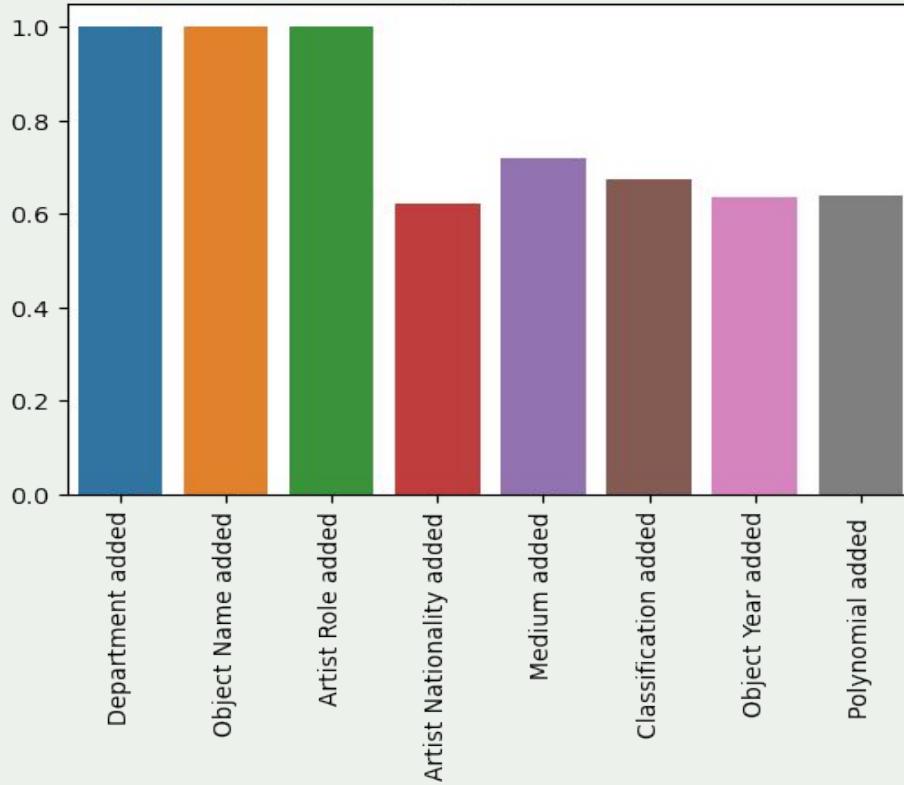
Test: **0.71**

F1 Score

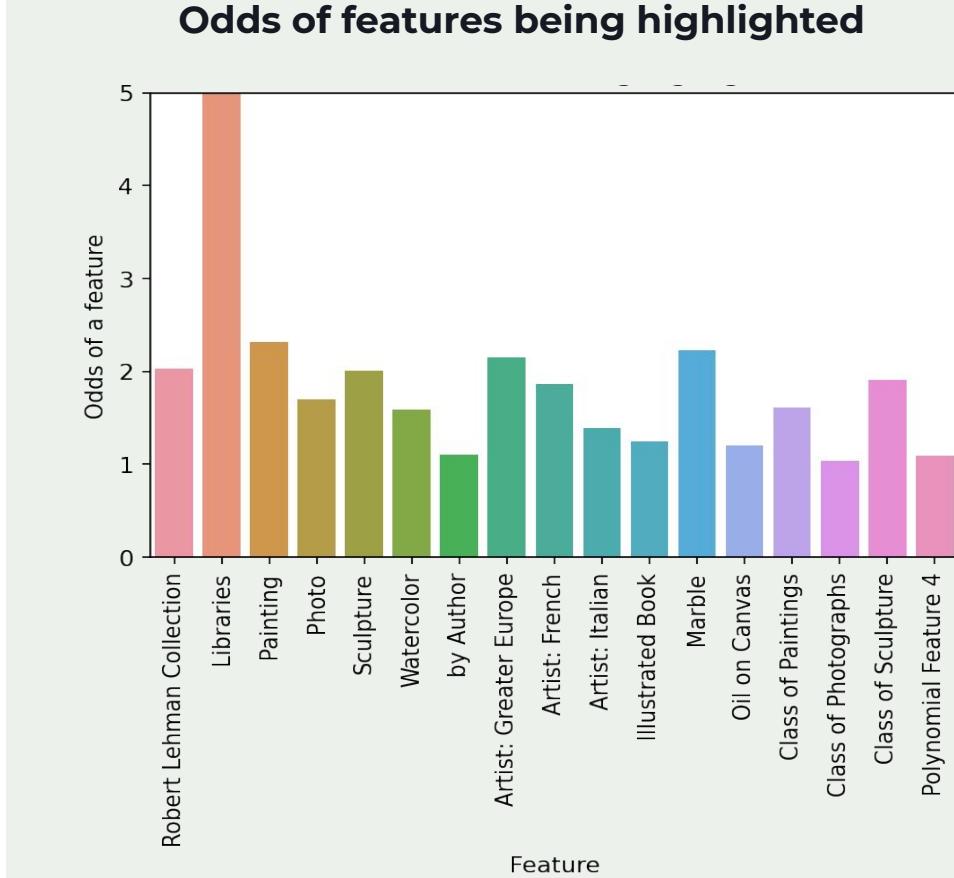
Train: **0.37**

Test: **0.38**

Precision scores by each feature addition



Odds of Features





04

Key takeaways

Give your whole collection

Robert Lehman
Collection

Europe, after all (& French)

British/German/Dutch/Netherlandish/Spanish

Marble stands test of time

Medium-wise,
marble most likely to be
highlighted

Usual suspects: Painting

Painting is never dead

Odd ones

Sculpture (expected),
Watercolor (not so much)

Libraries

Big on archives



05

Future work



Groups

Build models for:
Group 1, 2, 3



Models

Try less interpretable,
more complex models



Mission

Work w/ curators
to align selections w/
director's mission

Questions?

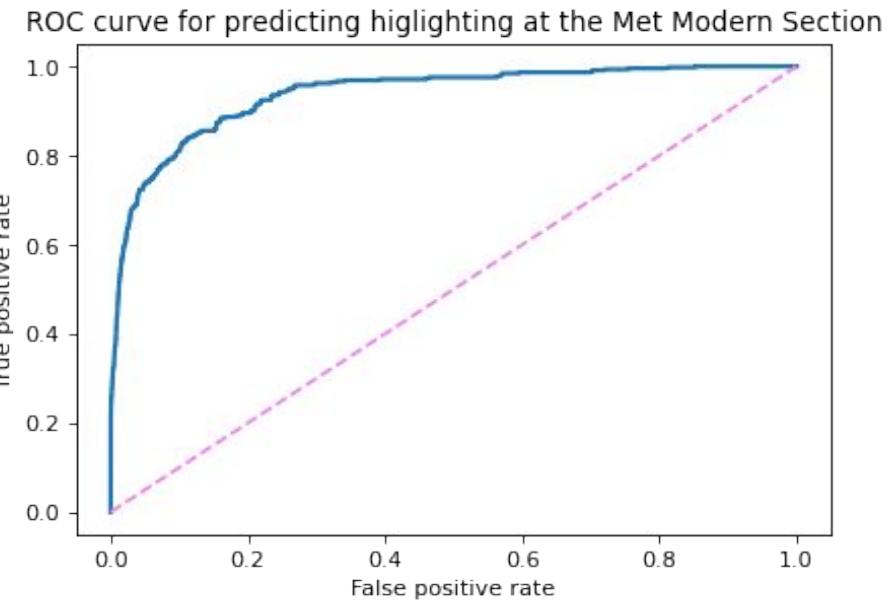
& Appendix

Photo Credits:

(Museum Highlights) - Photo by [@heyminhy](#) on [Unsplash](#)

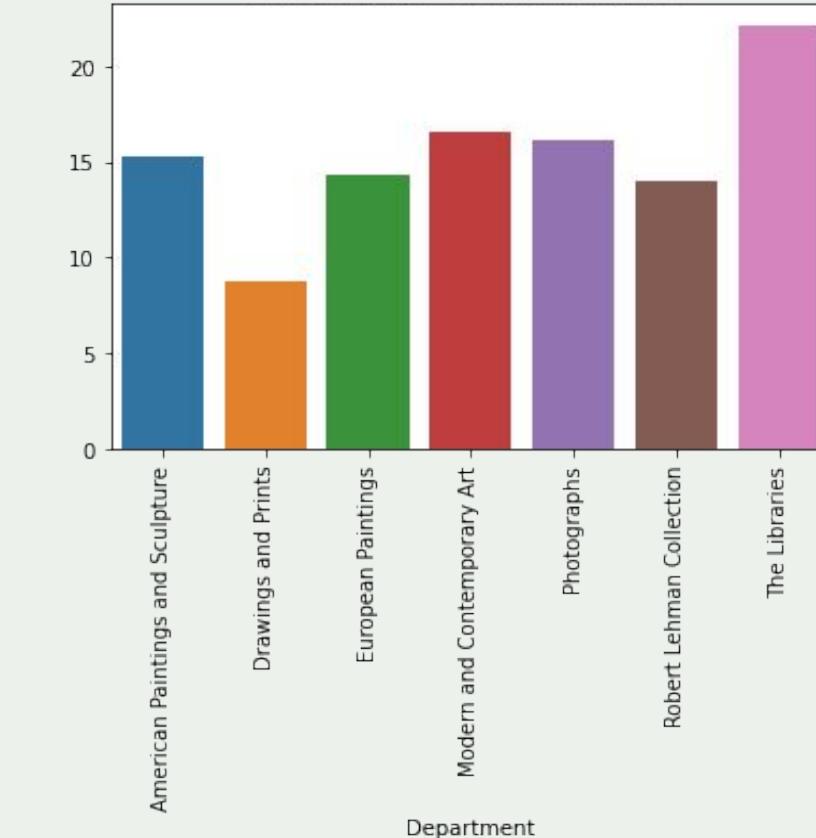
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ROC Curve

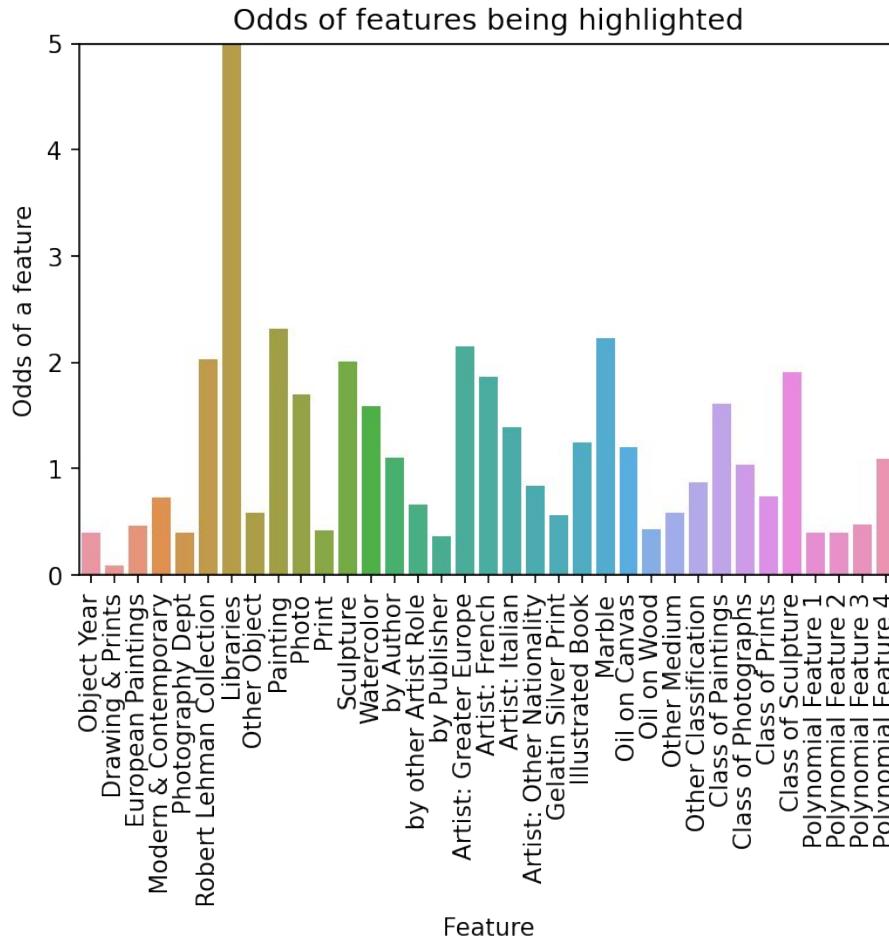


Probability of Being Highlighted

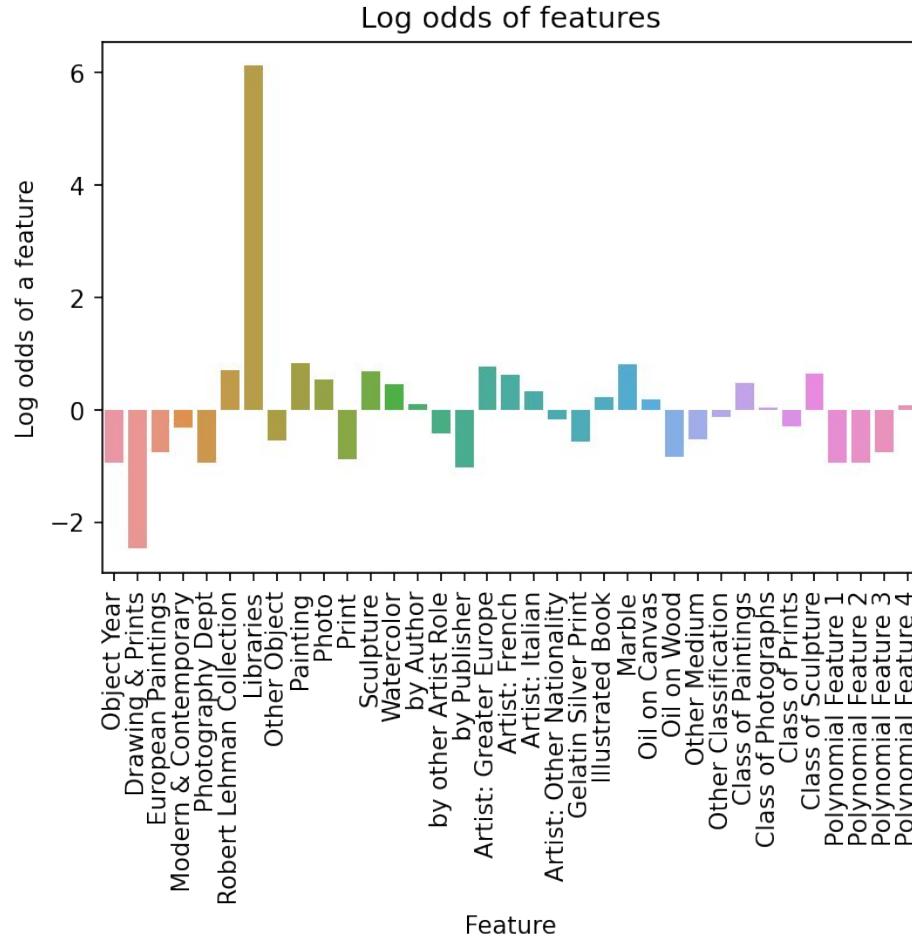
Department Ratios in Highlighted



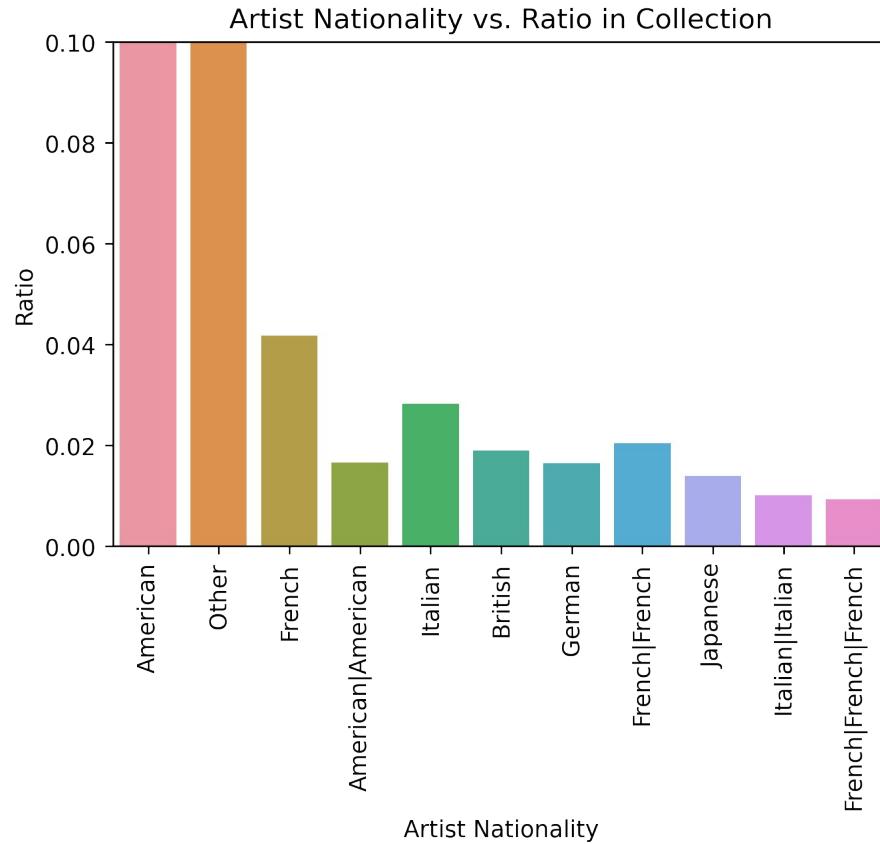
Odds - All



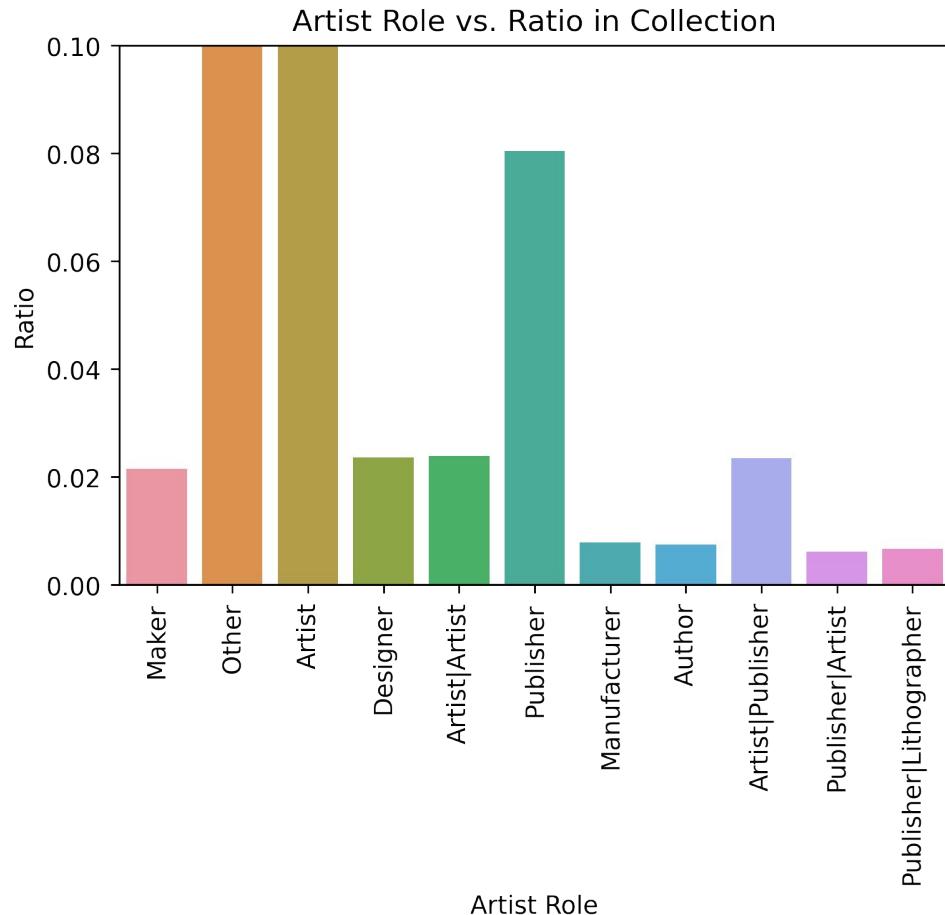
Log Odds - All



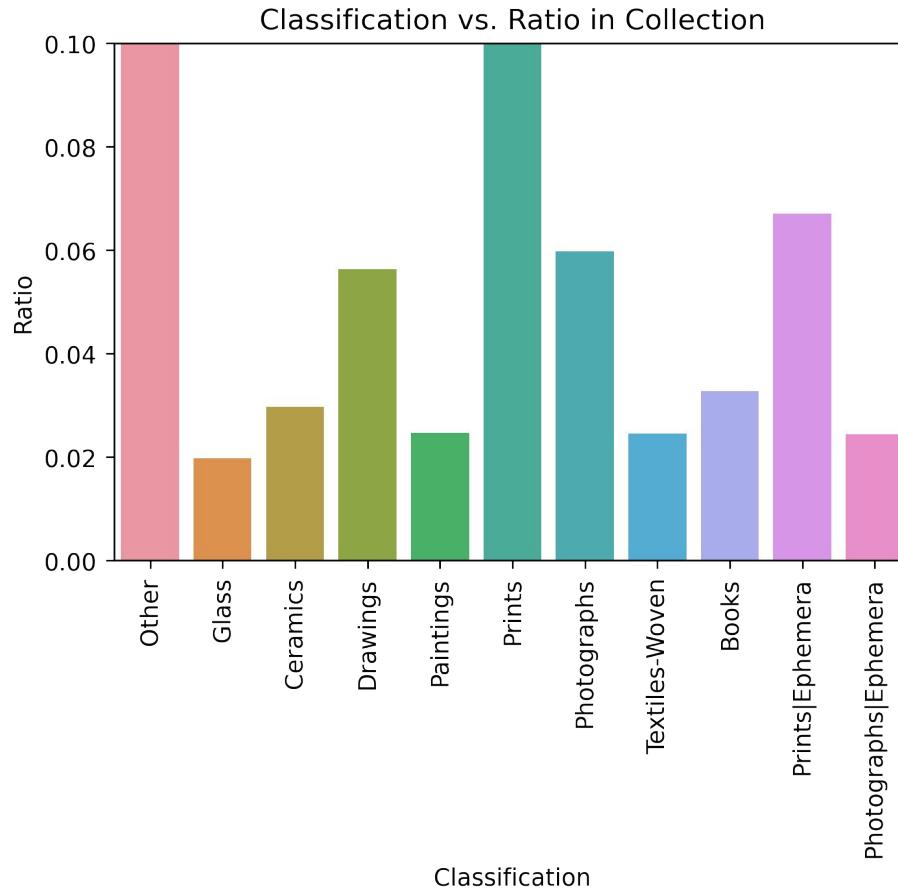
Collection Distributions



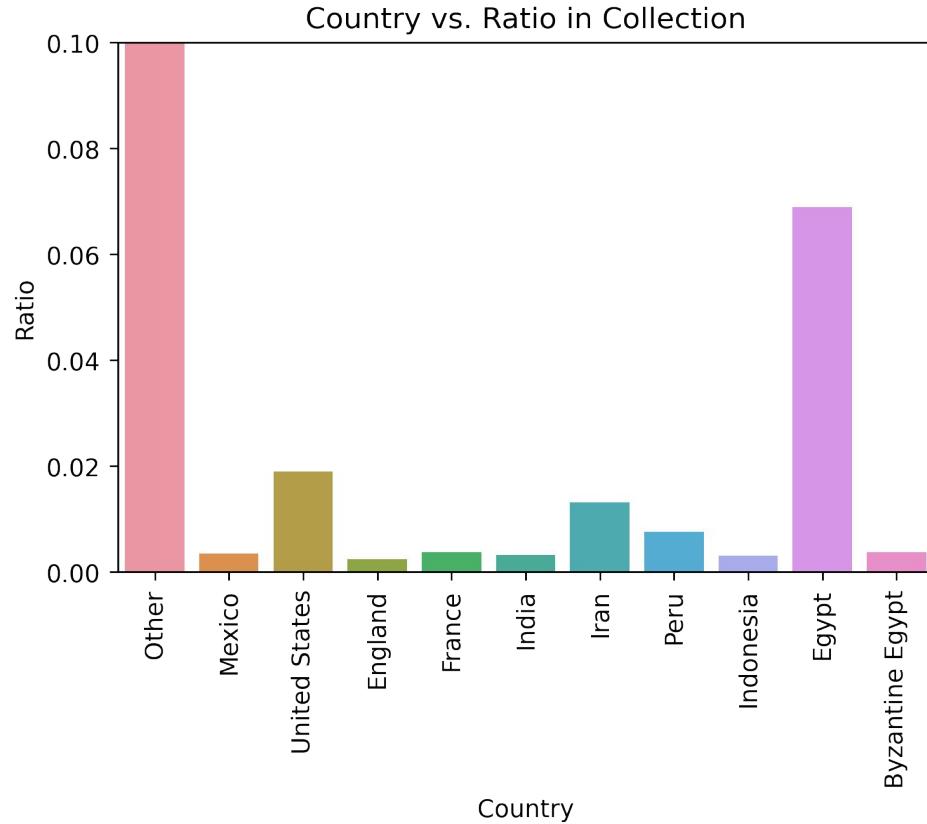
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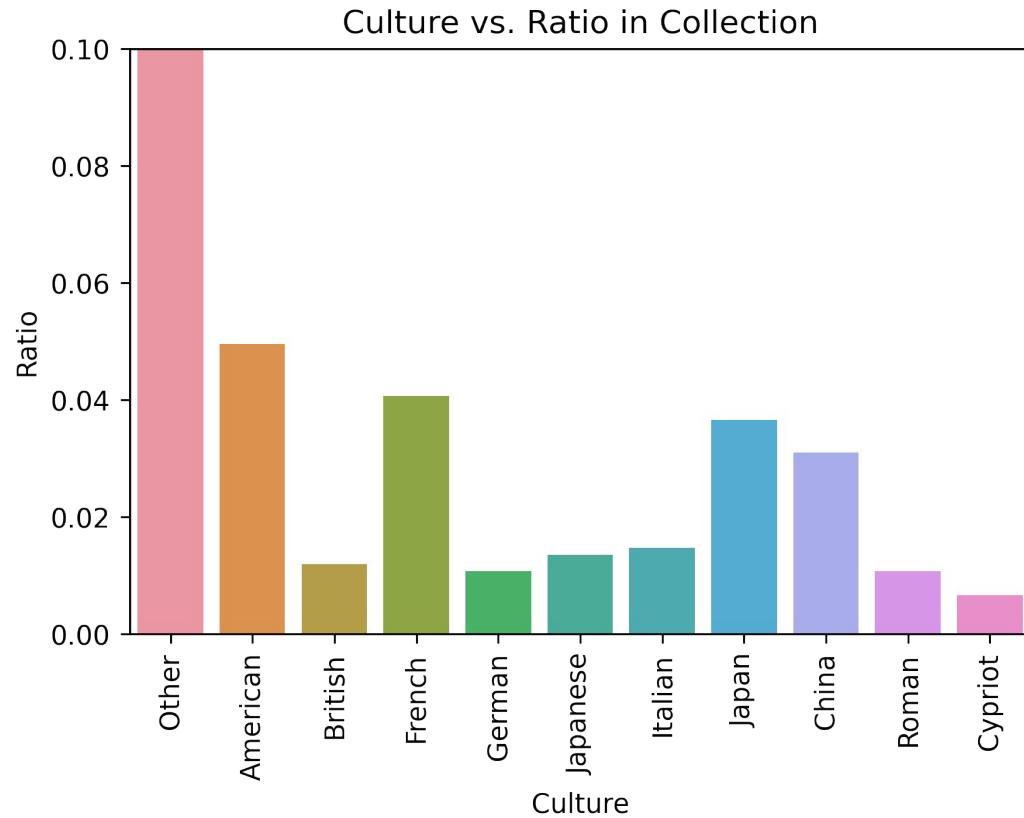
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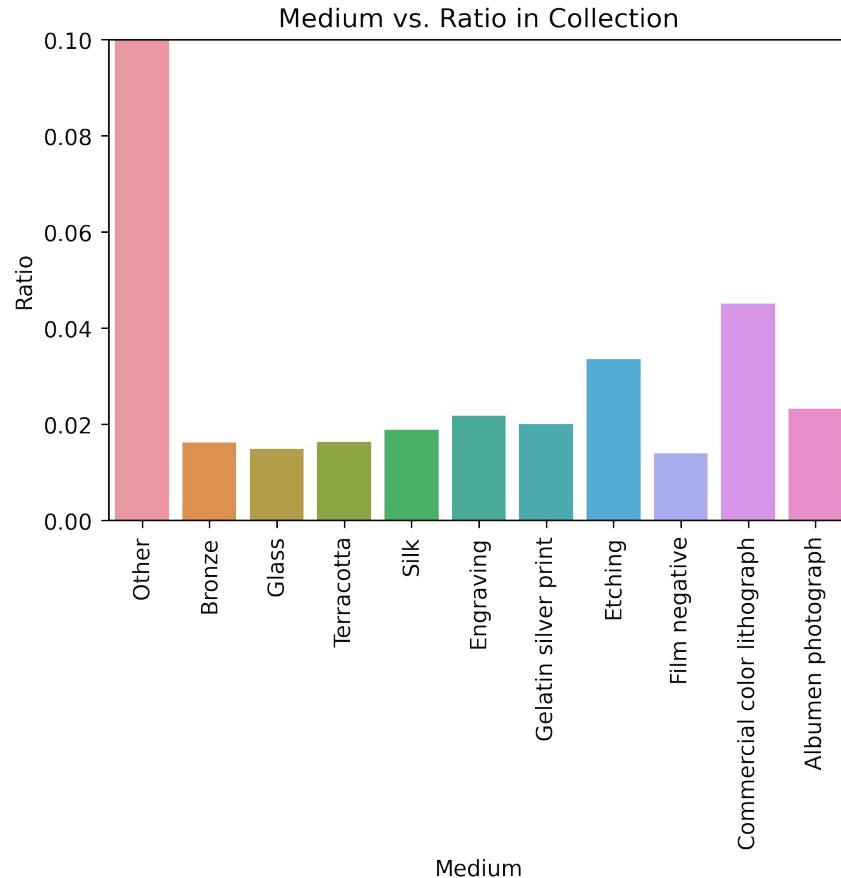
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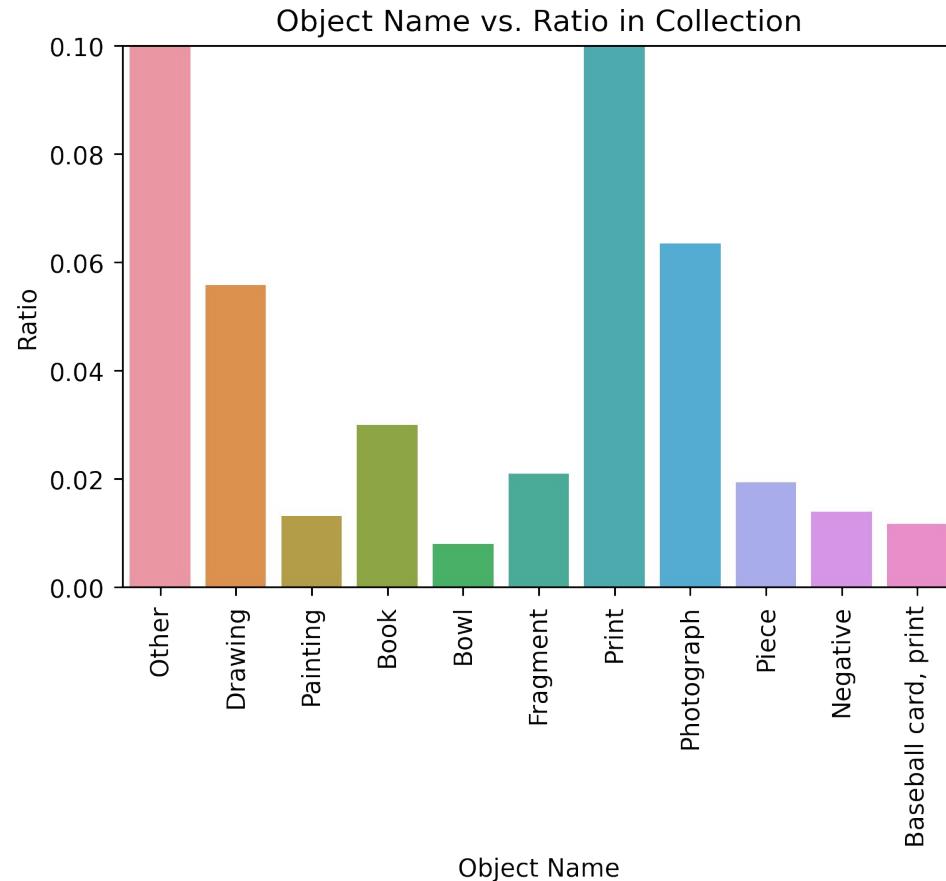
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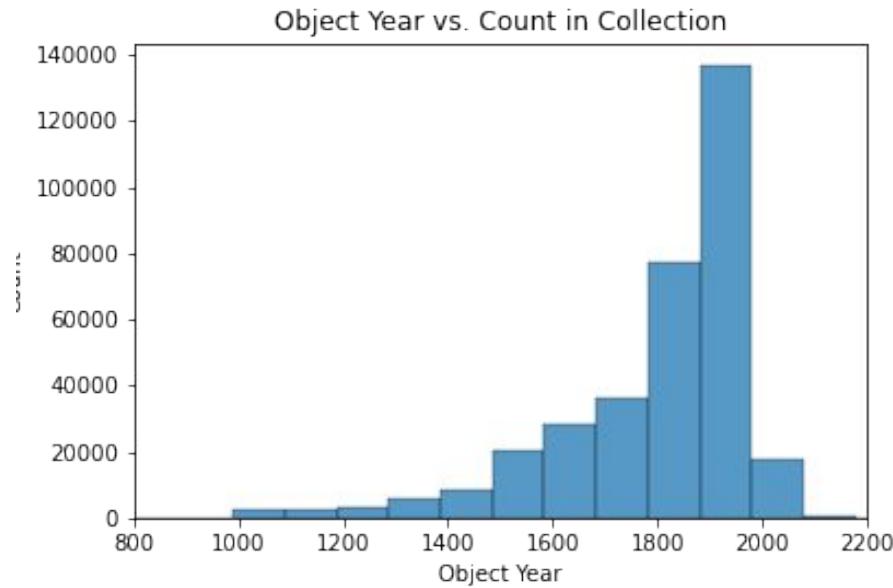
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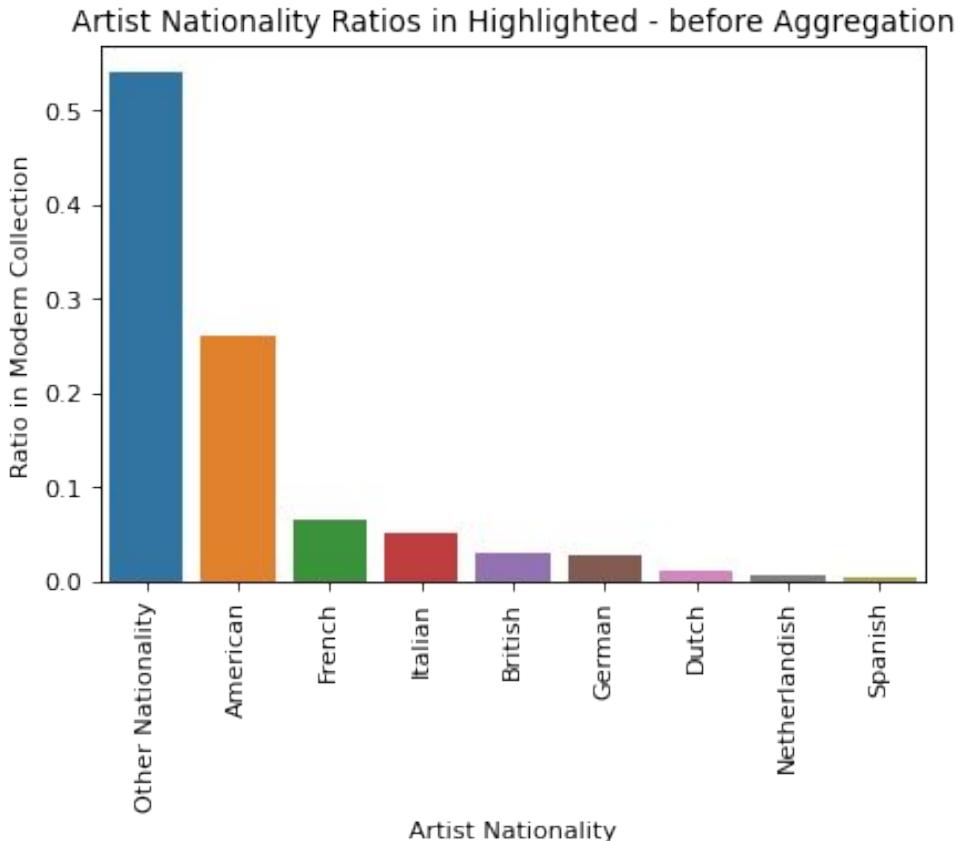
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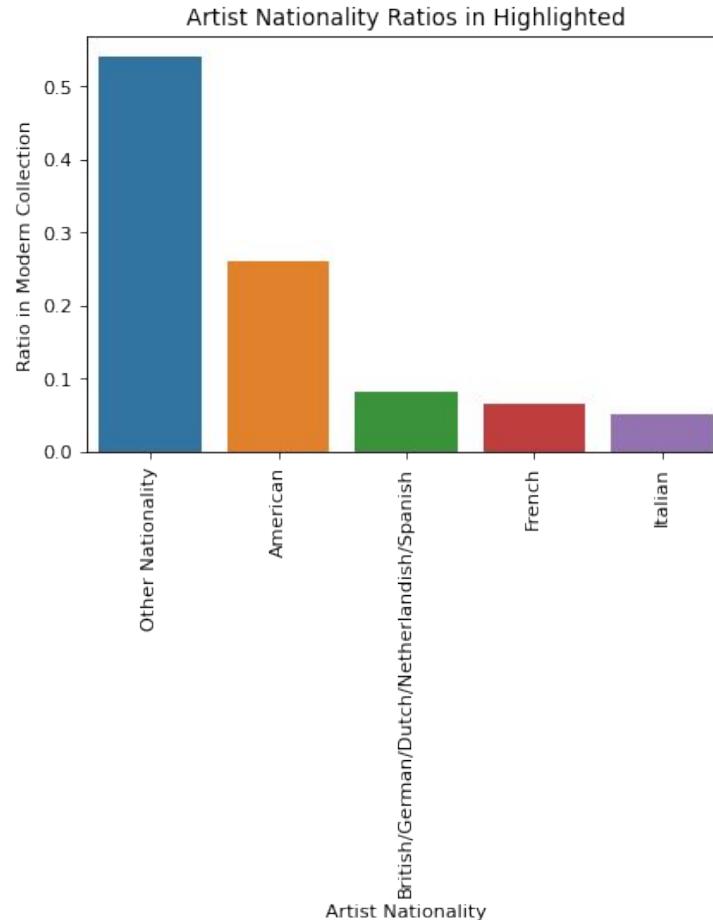
Collection Distributions



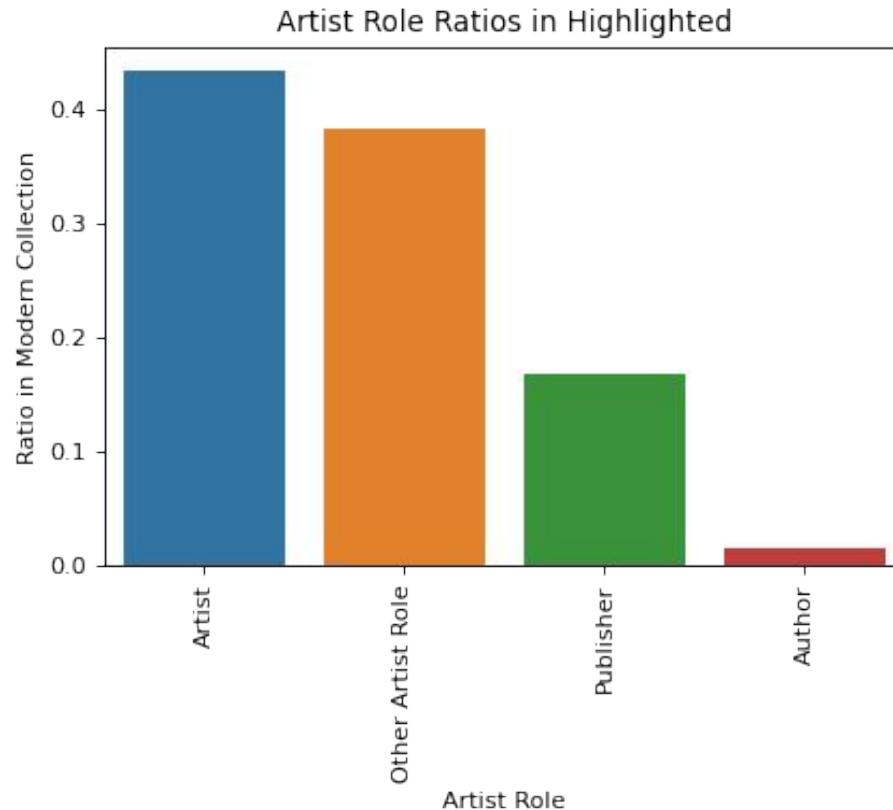
Modern Highlights



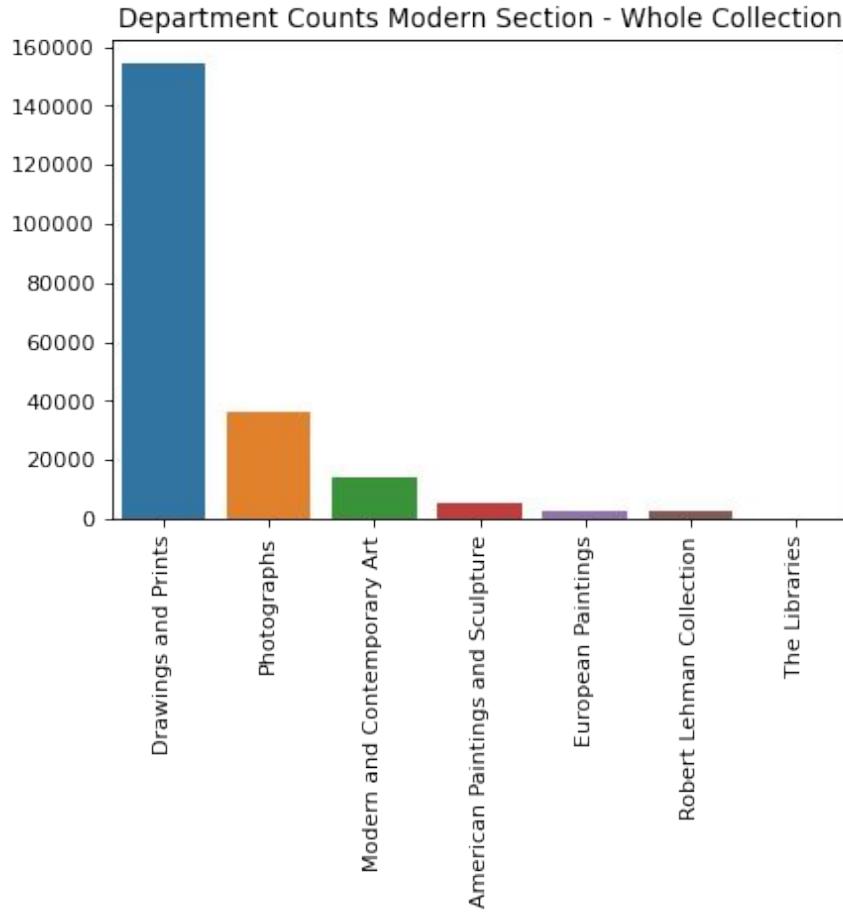
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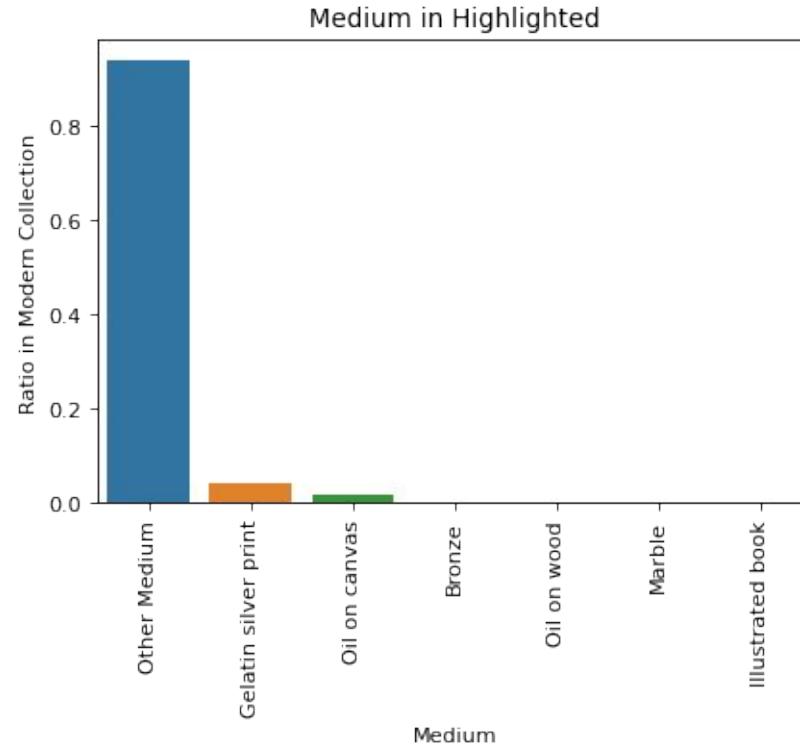
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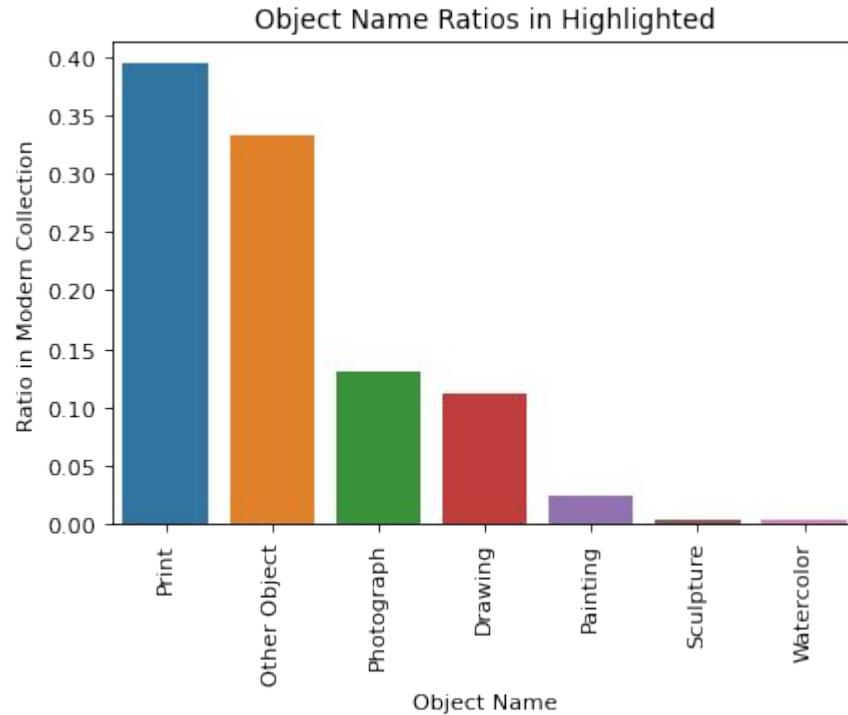
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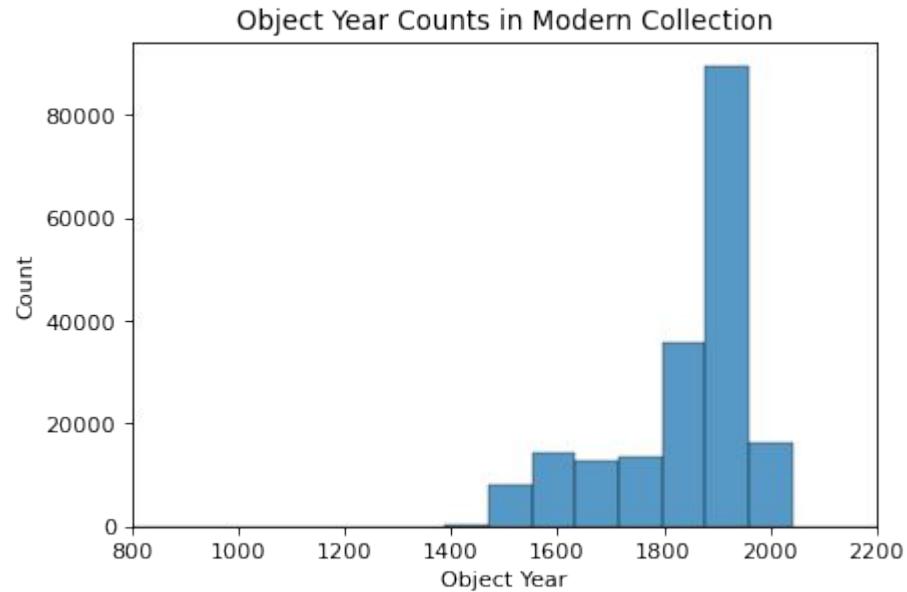
Modern Highlights



Modern Highlights



Modern Highlights



Modern Highlights

