

Model Overview Dashboard

0.67

Avg IoU

0.77

Avg Precision

0.83

Avg Recall

0.27

Avg BLEU1

0.05

Avg BLEU4

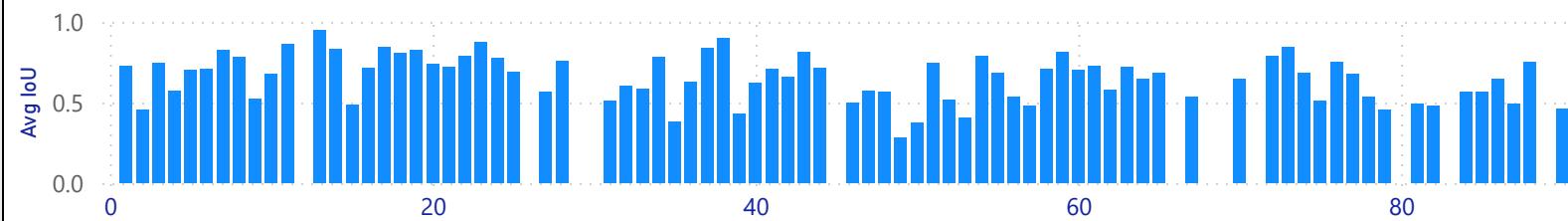
0.21

Avg METEOR

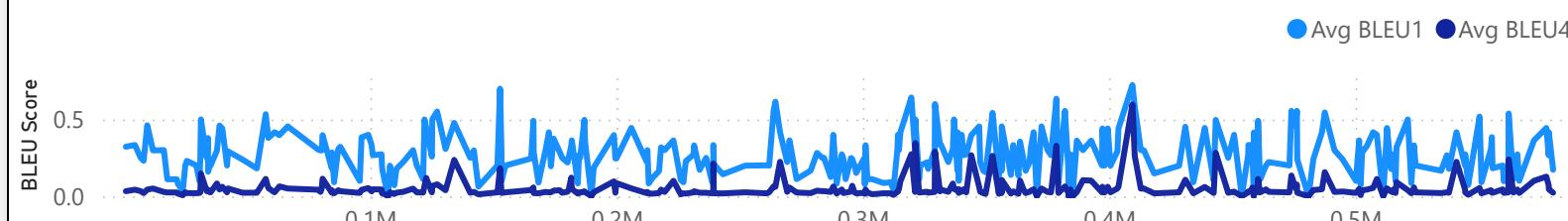
296

Images...

Avg IoU by category_id

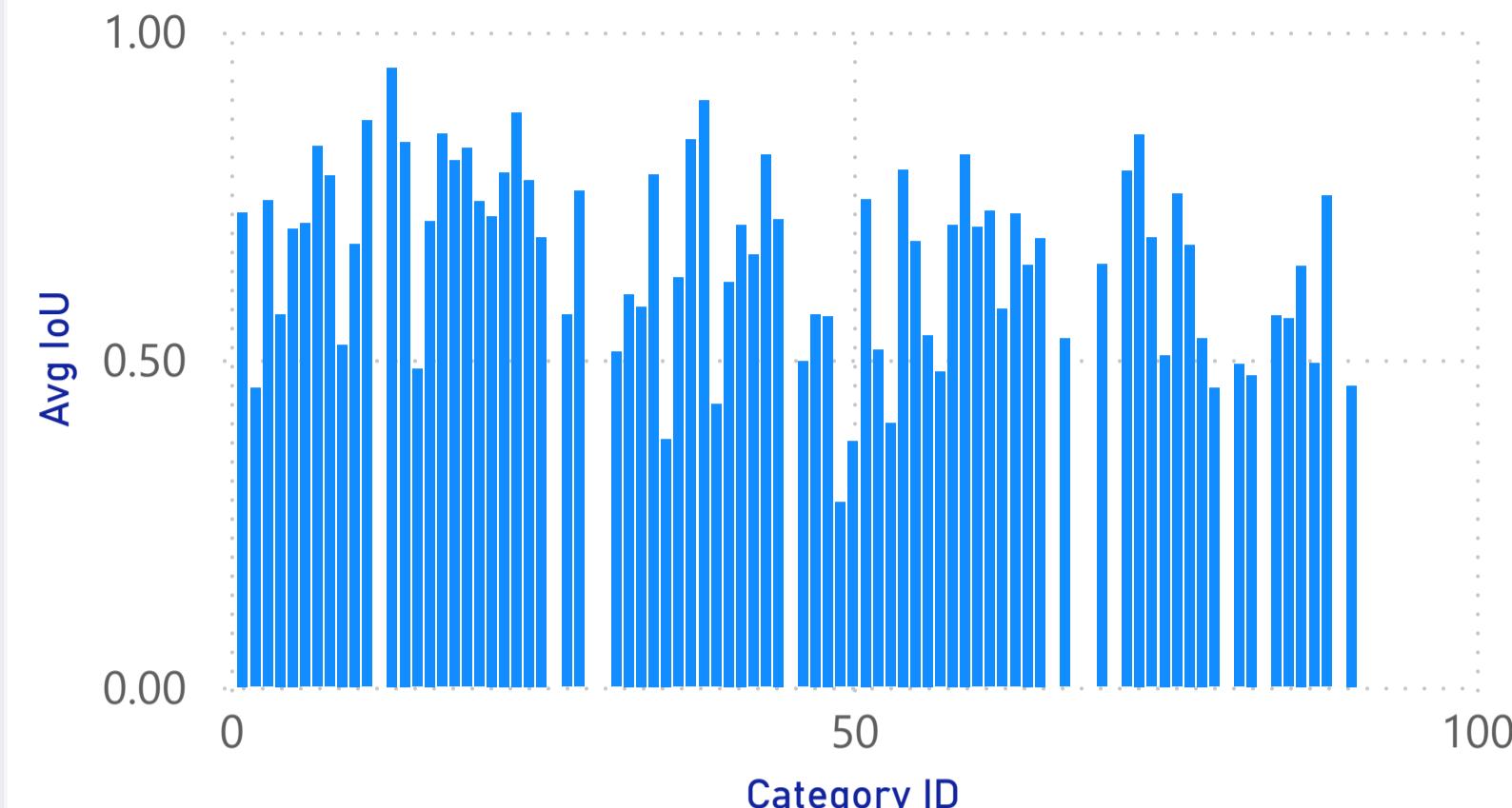


Avg BLEU1 and Avg BLEU4 by image_id

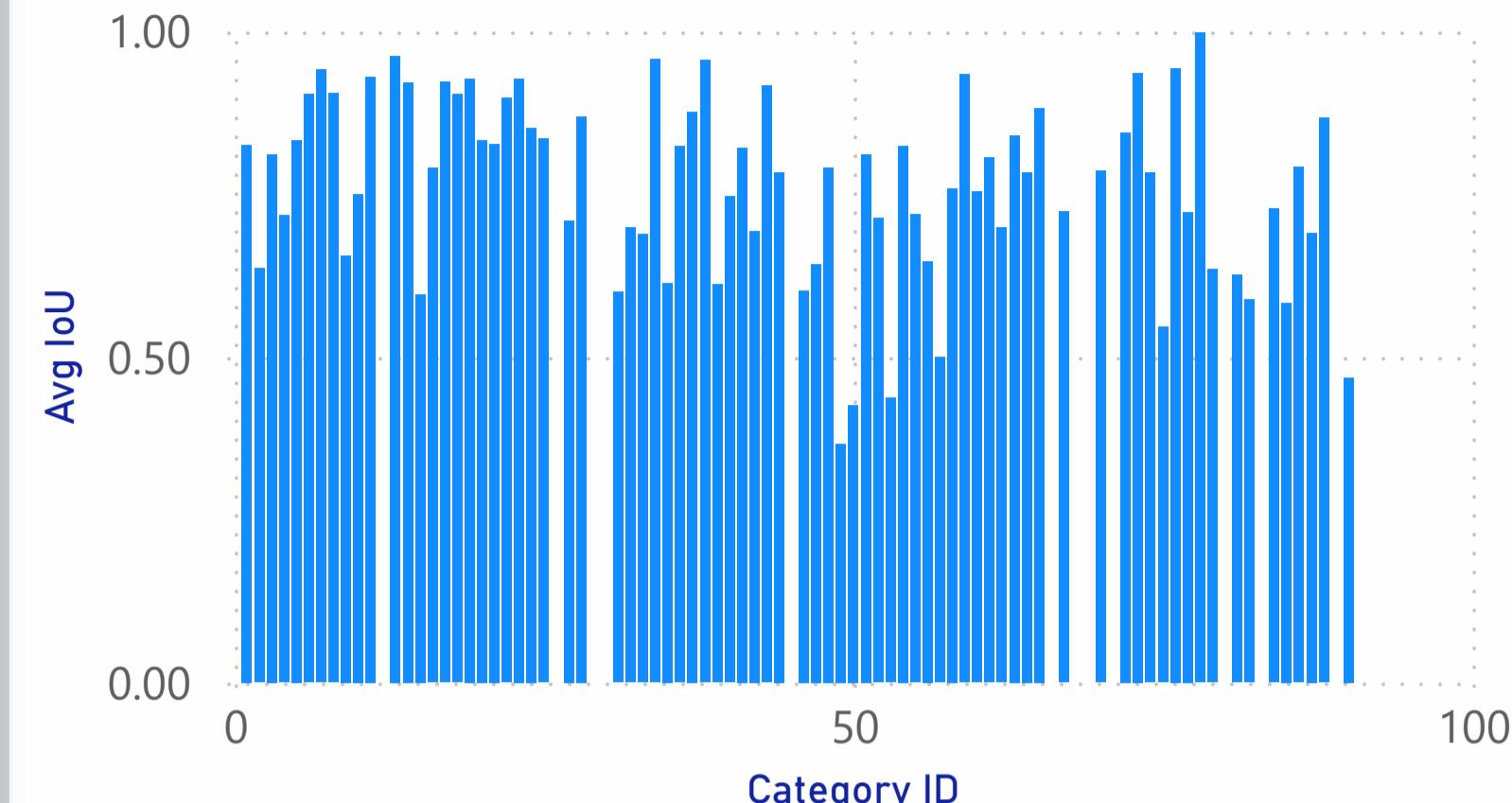


Segmentation Performance Analysis

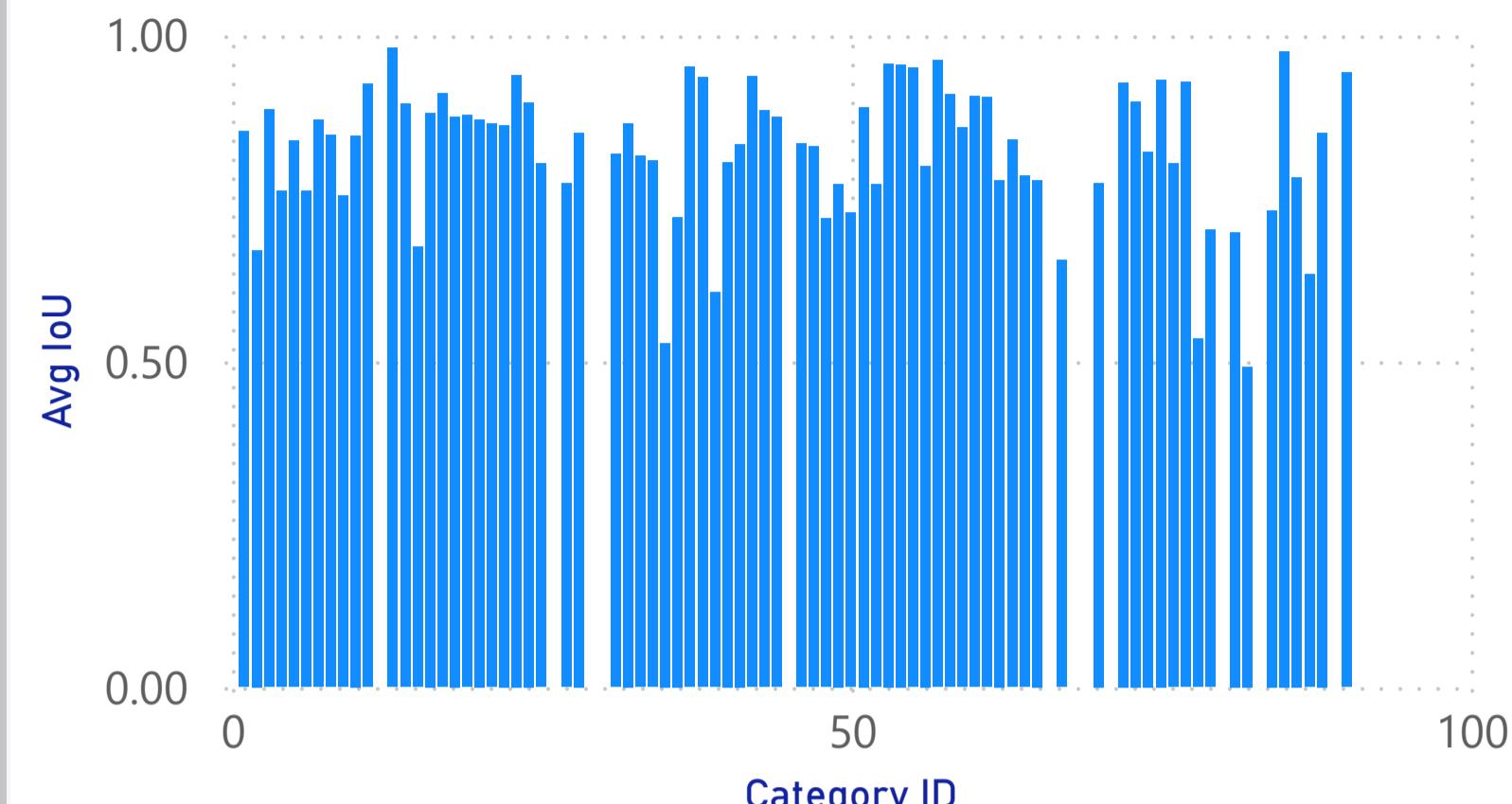
Avg IoU by category_id



Avg Precision by category_id



Avg Recall by category_id



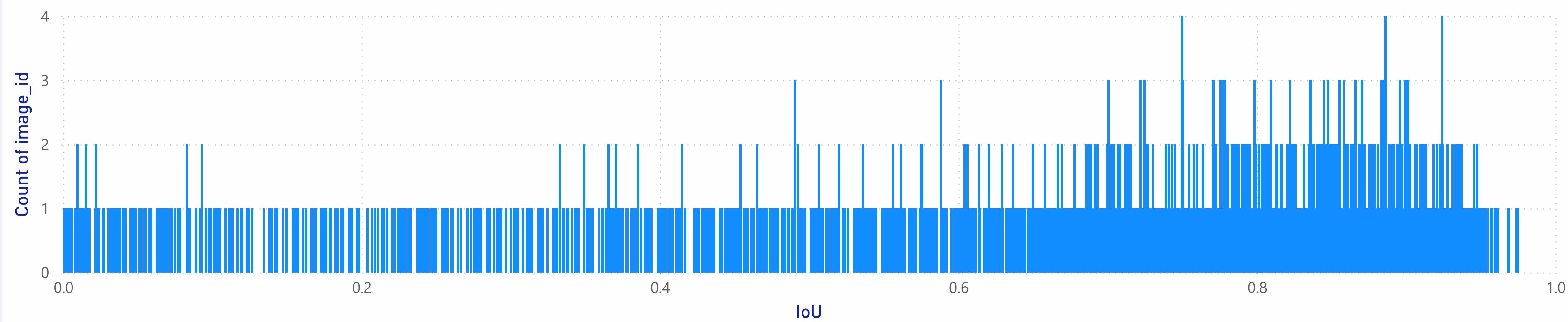
category_id Avg F1

category_id	Avg F1
13	0.97
38	0.94
23	0.93
11	0.93
17	0.91
73	0.91
14	0.91
37	0.90
19	0.90
43	0.89
-	-

category_id Avg IoU

category_id	Avg IoU
13	0.94
38	0.90
23	0.88
11	0.86
17	0.84
73	0.84
37	0.84
14	0.83
7	0.82
19	0.82

IoU Score Distribution



Captioning Performance Analysis

0.27

Avg BLEU1

0.05

Avg BLEU4

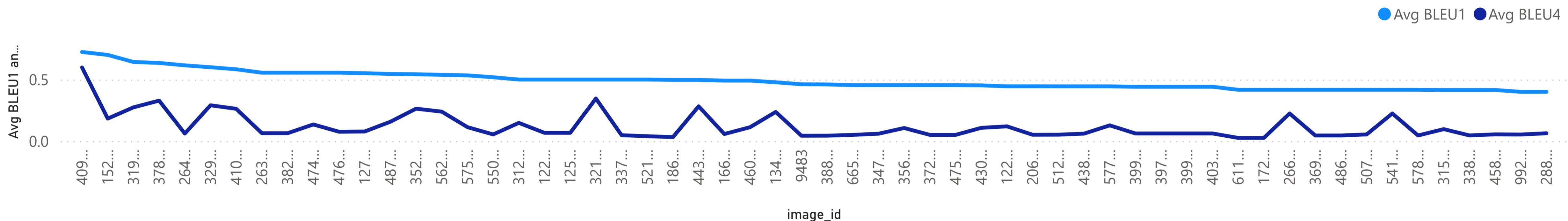
0.23

Avg ROUGE_L

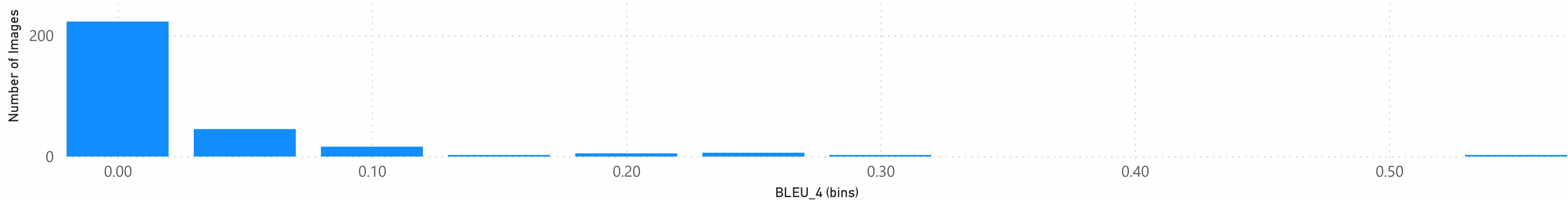
0.21

Avg METEOR

BLEU-1 and BLEU-4 Trend by Image



BLEU-4 Score Distribution



image_id pred_caption

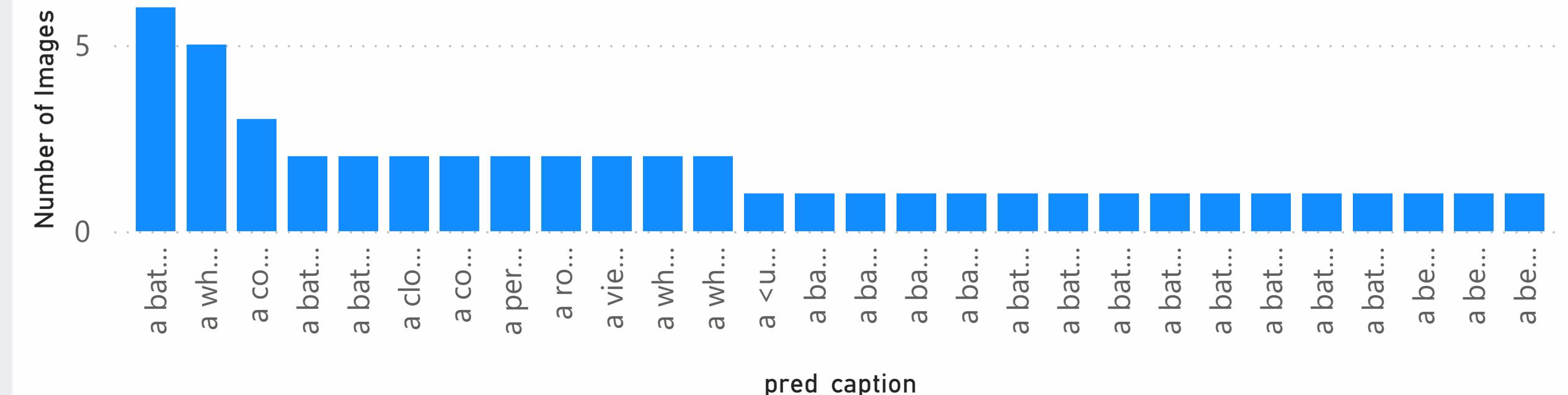
23899 a <unk> <unk>

107226 a couple of people that are in the same direction.

109798 a plate topped with a bunch of doughnuts and a cup of coffee.

143931 a sign that says <unk> <unk>

Caption Length Distribution



Model Error & Failure Case Analysis

Worst IoU

0.00

Min of IoU

Worst BLEU-4

0.00

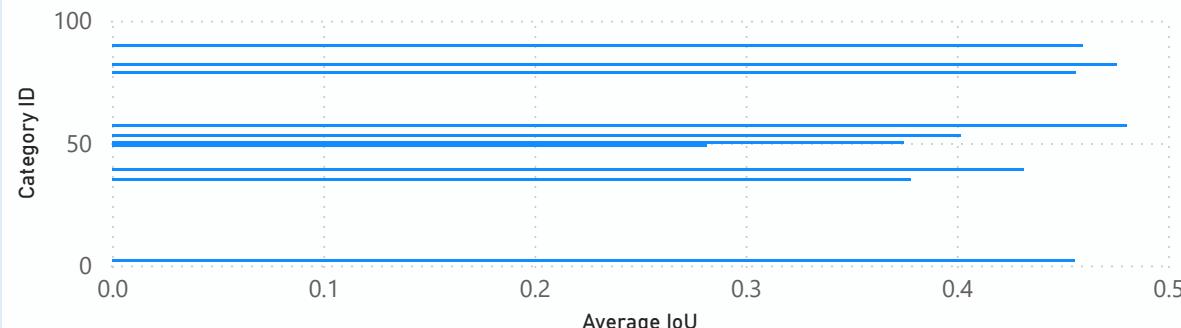
Min of BLEU 4

IoU Variation

0.25

Standard deviation of IoU

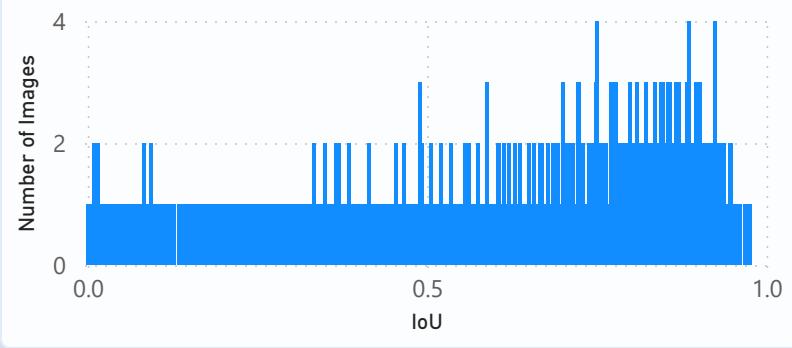
Worst 10 Segmentation Categories (Lowest IoU)



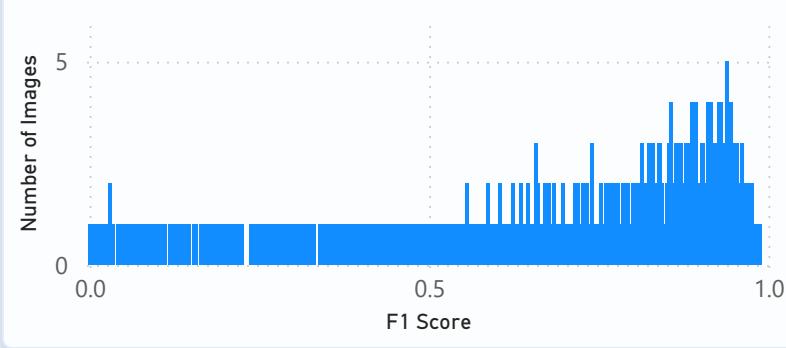
Worst 10 Caption Predictions (Lowest BLEU-4)

image_id	gt_caption	pred_caption
453860	A couple of pieces of very nice looking luggage.	two cell ph
383621	Commercial airliner flying near mast on cloudy day.	a large whi
189828	Grey plane taking off above some green vegetation.	a view of a
385190	Street art painted on the wall in an asian country.	a bathroom
480985	The shiny motorcycle has been put on display.	a large <ur>
		<unk> <ur>

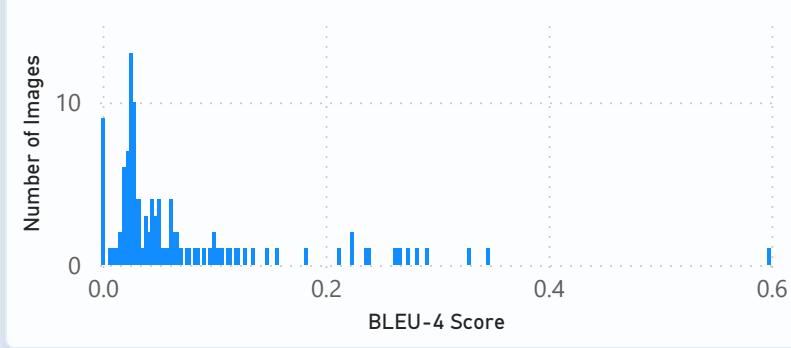
IoU Score Distribution



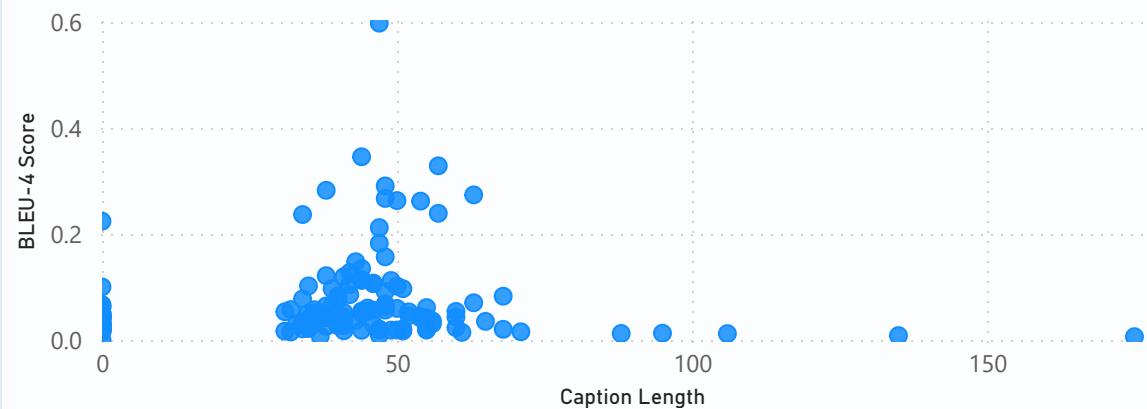
F1 Score Distribution



BLEU-4 Score Distribution



Caption Length vs BLEU-4 (Caption Quality Analysis)



IoU vs Precision (Segmentation Consistency)

