

Image Upload Size Analysis

1. Moving Averages (Raw)

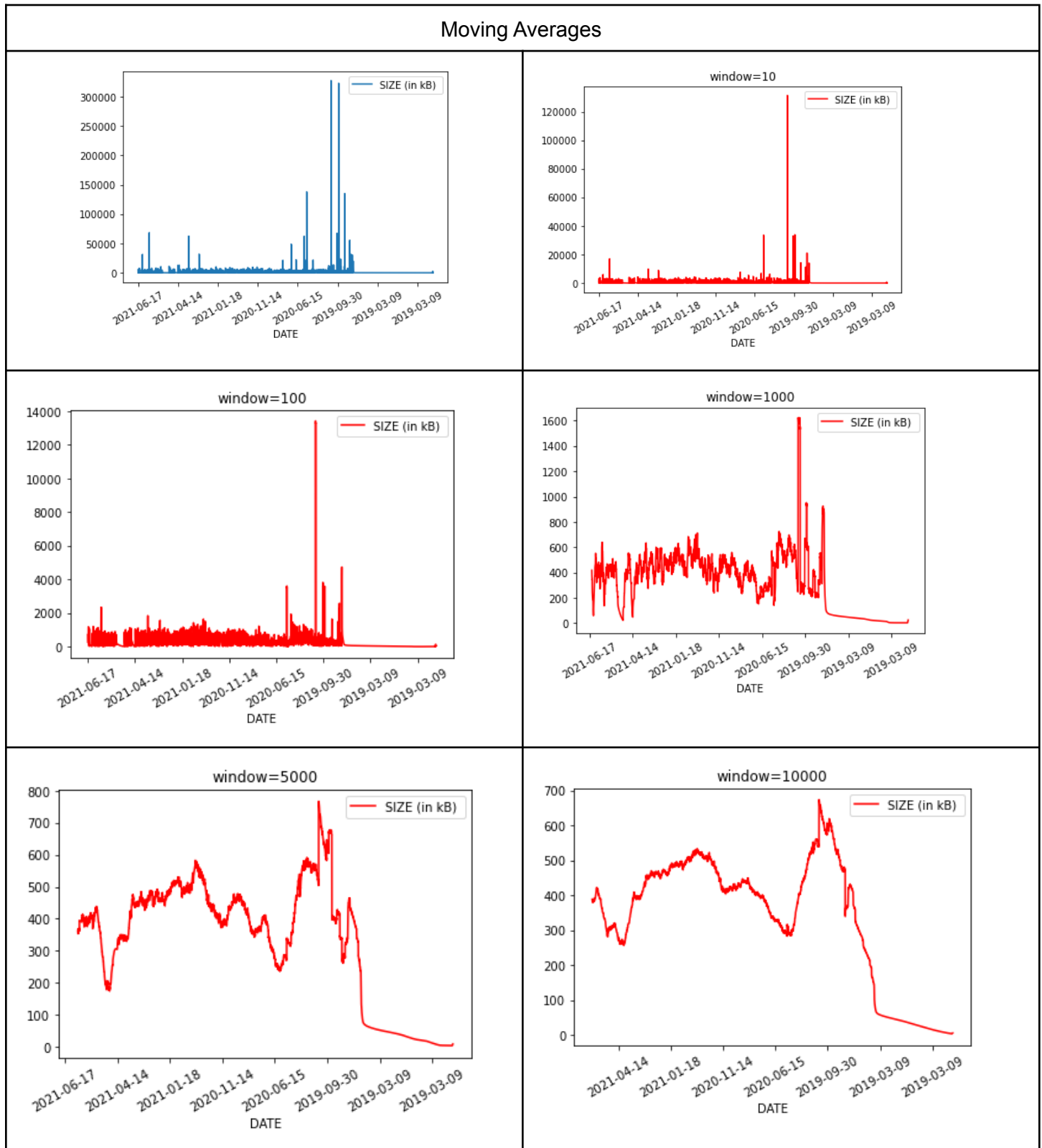


Figure: 1

2. Moving Averages (Filtered)

Data Cleansing

- + Outlier removal -> remove if z-score < 3

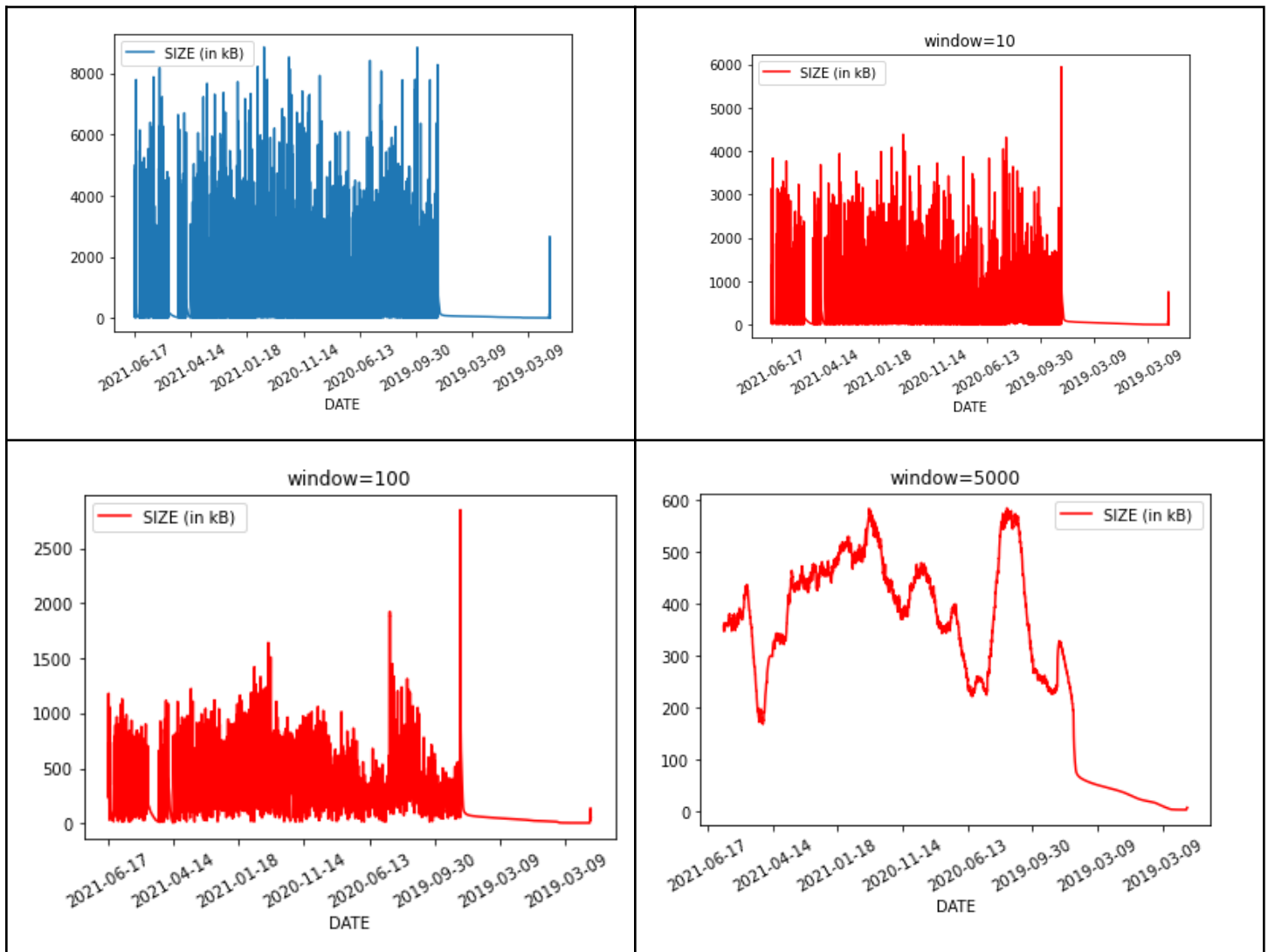


Figure: 2

3. Descriptive Statistics

	Overall	1st half of Dataset 2021-06-17 - 2020-08-18	2nd Half of Dataset 2018-06-12 - 2020-08-18
count	147659.000000	73829.000000	73830.000000
mean	298.503792	413.162705	183.846433
std	483.356076	530.024338	400.063801
min	0.000000	0.000000	0.230000
25%	33.610000	93.500000	19.730000
50%	116.850000	271.420000	50.850000
75%	446.275000	574.630000	192.590000
max	8871.340000	8871.340000	8858.870000
median	116.85	271.42	50.85

Table: 1

4. Forecasted Growth

Forecast Plot

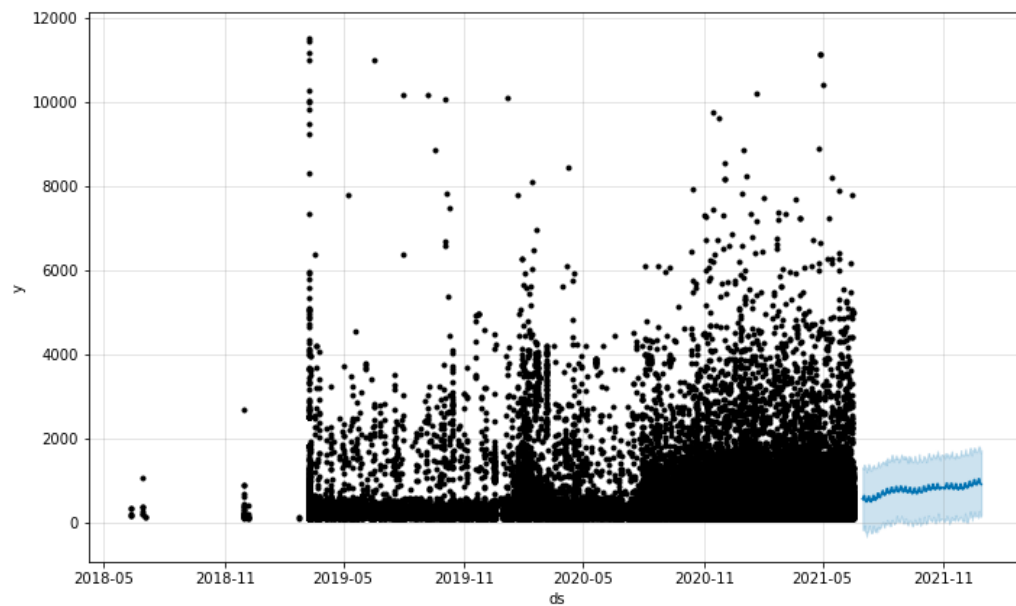


Figure: 3

Forecast Spreadsheet

<https://docs.google.com/spreadsheets/d/1NGcf2I4PG7gQZkVp9OTEAE2DE6hxbCTi7ftlIVMLyfA/edit?usp=sharing>

5. Conclusions

Average upload size has increased or decreased over time?

Increased and continues to do so. An analysis of the moving averages shows a significant increase in average image size from 2018 to 2021. In general, we regularly receive a variety of image sizes from 0 *kb* to approximately 8000 *kb*.

Points of Interest where average upload size increased or decreased?

- April 2019, **increased**
- May 2020, **decreased**
- July 2020, **increased**
- February 2021, **decreased**
- May 2021, **increased**