Performance Testing

Local Testing (Cache Disabled)

Home page (Using real-time heatmaps):

Total requests: 54
Load time: 16.38s
Slow Requests: 3

File	Initiator	Туре	Tra	Size	0 ms	1.28 s	2.56 s	3.84 s	5.12 s	6.40 s	7.68 s	8.96 s	10.24 s	11.52 s	12.80 s	14.08 s	
/	docume	html	53	53.59 MB												1	14586 n
bootstrap.min.css	stylesheet	CSS	25	160.30 kB										118 ms			
jquery-3.5.1.min.js	script	js	31	89.48 kB										70 ms			
bootstrap.min.js	script	js	16	60.04 kB										101 ms			
bootstrap.bundle.min.js	script	js	23	80.93 kB										87 ms			
d3.v5.js	/:131 (s	js	125	515.70 kB										31	3 ms		
d3.v5.js	/:189 (s	js	125	515.70 kB										31.	2 ms		
d3.v5.js	/:246 (s	js	125	515.70 kB										27	ms ms		
d3.v5.js 🖡	/:293 (s	js	125	515.70 kB											774 ms		
d3.v5.js 🛖	/:340 (s	js	125	515.70 kB											772 ms		
d3.v5.js	/:387 (s	js	125	515.70 kB										24	3 ms		
d3.v5.js	/:434 (s	js	125	515.70 kB										24	1 ms		
d3.v5.js	/:481 (s	js	125	515.70 kB										23	6 ms		
d3.v5.js	/:528 (s	js	125	515.70 kB										22	1 ms		
d3.v5.js	/:575 (s	js	125	515.70 kB										20	3 ms		
d3.v5.js	/:622 (s	js	125	515.70 kB										20	2 ms		
d3.v5.js	/:669 (s	js	125	515.70 kB										2	43 ms		
d3.v5.js	/:716 (s	js	125	515.70 kB											!61 ms		
d3.v5.js	/:763 (s	js	125	515.70 kB											!37 ms		
in Fi			405	545 70 10													

Home page (Using pre-calculated heatmaps):

Total requests: 42 Load time: 3.17s Slow Requests: 0



We found that using pre-calculated tweet frequency heatmaps improved performance significantly. This can be attributed to the large size of our dataset, numbering around ~400,000 tweets, and the processing required to get the data into a format suitable for heatmaps.

Daily Page:

Total requests: 72 Load time: 1.16s Slow Requests: 0



Key Dates Page:

Total requests: 34 Load time: 1.7s Slow Requests: 1

File	Initiator	Туре	Trans	Size	0 ms	320 ms	640 ms	960 ms	1.28 s	1.60 s
/keyda 🦡	document	html	166.3	166.04 kB					1224 ms	
bootstrap.r	stylesheet	CSS	25.86	160.30 kB					51 ms	
jquery-3.5.	script	js	31.32	89.48 kB					41 ms	
bootstrap.r	script	js	16.40	60.04 kB					33 ms	
bootstrap.b	script	js	23.29	80.93 kB					49 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					39 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					44 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					40 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					49 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					44 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					42 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					49 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					46 ms	;
d3.v5.js	/keydates/	js	125.7	515.70 kB					42 ms	
d3.v5.js	/keydates/	js	125.7	515.70 kB					45 ms	;
d3.v5.js	/keydates/	js	125.7	515.70 kB					47 m:	5
d3.v5.js	/keydates/	js	125.7	515.70 kB					50 m	5
d3.v5.js	/keydates/	js	125.7	515.70 kB					52 m	s
d3.v5.js	/keydates/	is	125.7	515.70 kB					55 m	s

Models Page:

Total requests: 14 Load time: 2.77s Slow Requests: 1

File	Initiator	Type	Trans	Size	0 ms	640 ms	1.28 s	1.92 s	2.56 s
/model 🦡	document	html	141.4	141.11 kB				2134 ms	
bootstrap.r	stylesheet	CSS	25.86	160.30 kB					420 ms
query-3.5.	script	js	31.32	89.48 kB					223 ms
bootstrap.r	script	js	16.40	60.04 kB					227 ms
bootstrap.k	script	js	23.29	80.93 kB					234 ms
1*LB-G6WE	img	png	22.79	21.88 kB					373 ms
tree.png	img	png	14.94	14.49 kB					539 ms
mage7_a1	img	png	72.74	72.06 kB					369 ms
k-nearest-r	img	png	7.61 kB	6.85 kB					390 ms
d3.v5.js	/models/:1	js	125.7	515.70 kB					42 ms
d3.v5.js	/models/:2	js	125.7	515.70 kB					43 ms
mpld3.v0.5	/models/:2	js	15.99	63.82 kB					32 ms
mpld3.v0.5	/models/:2	js	15.99	63.82 kB					38 ms
avicon.ico	FaviconLo	html	3.26 kB	2.96 kB					4 ms

About Page:

Total requests: 6 Load time: 236ms Slow Requests: 0

File	Initiator	Ту	Tra	Size	0 ms	80 ms		160 ms	240 m
/about/	docum	ht	5.1	4.84 kB	1 ms				
bootstrap.min.css	stylesh	css	25	160.30 kB					155 ms
jquery-3.5.1.min.js	script	js	31	89.48 kB			73 ms		
bootstrap.min.js	script	js	16	60.04 kB				120 ms	
bootstrap.bundle.min	script	js	23	80.93 kB			1	01 ms	
favicon.ico	Favico	ht	3.4	3.13 kB					10 ms