Analytics Honors Report

POOLE COLLEGE OF MANAGEMENT



Prepared by

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PROCESS

PYTHON



- Obtained .csv files for each discussion forum from Professor Nealon.
- Uploaded the files in NCSU
 JupyterHub to clean the data
 utilizing the code.
- Cleaning the data: removed irrelevant data fields and other information to create finalized datasets (Total 3 data frames).
- Renamed the column names.
- Added 'Post Status' column to classify posts: Original Posts and Reply Posts

EXAMPLE:

Finalized Data frame for Discussion Forum #1

	ID	Discussion No.	ParentID	UserID	Student Name	Created	Modified	Post Name	Content	Word Count	Character Count	Post Status
0	28103	16796	0	103354	Maryam El-Baytam	1661363003	1661363003	Integration into the "New" Digital World	In 2021, Facebook rebranded to "Meta" and anno	441	2351	Original Post
1	83623	16796	28103	32348	Chelsea Erickson	1662069371	1662069371	Integration into the "New" Digital World	Hey Maryam this was a great DN! Having a new p	76	332	Reply Post
2	92364	16796	28103	135641	Sara Roe	1662231289	1662231289	Integration into the "New" Digital World	Hi Maryam,I enjoyed reading through your post!	126	664	Reply Post
3	158897	16796	92364	103354	Maryam El-Baytam	1663299858	1663299858	Integration into the "New" Digital World	Hi Sara! I definitely agree! Though upon furth	153	804	Reply Post
4	28728	17095	0	135641	Sara Roe	1661365679	1661365679	Google Analytics 5 - Digital Marketing Analyti	During my marketing internship, I have worked	211	1201	Original Post
	-		-		-	_	_	-		***	-	
94	158845	72520	158528	103540	Miracle Chin	1663299136	1663299136	TikTok's SEO opportunity for brands	Hey Janae! I really like this article about Ti	133	617	Reply Post
95	158650	72562	0	11733	Andrew Matherly	1663296948	1663296948	Keep Optimising Podcast (Omnisend, Gabe Macaluso	This podcast is very fitting as our class had \dots	374	1873	Original Post
96	158767	72595	0	103540	Miracle Chin	1663298313	1663298313	The importance of Pinterest in mobile marketing	"https: www.forbes.comsites for be sbusiness counci	245	1245	Original Post
97	158841	72625	0	126591	Quang Tran	1663299083	1663299083	Biggest Changes to the Future of Email Marketing	As discussed in class, many believe that email	296	1632	Original Post
98	158942	72625	158841	148199	Spencer Oxendine	1663300373	1663300373	Biggest Changes to the Future of Email Marketing	Quang, I love your insight into the subject of	107	490	Reply Post

Given Information



Number of Students Enrolled in the course: 45
Students

Expected Original Discussion Posts for each Forum: 45 Posts

Note: A minimum of 5 quality comments (reply posts) for the semester are recommended for excellent participation.

Reply Post Estimation: 225 reply posts per discussion Forum

Data Collected



	Number of Original Posts	Number of Reply Posts
Discussion		
Forum #1	41	58
Forum #2	41	73
Forum #3	35	112

Forum #1

- Four Students did not submit their posts as only 41 original posts are present.
- There were only 58 reply posts for this forum. This indicates that not all students followed the recommendation given for excellent participation.

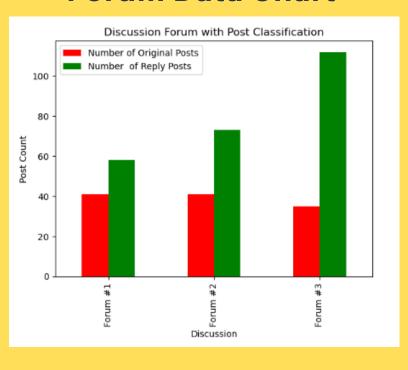
Forum #2

- Four Students did not submit their posts as only 41 original posts are present.
- Observation: No change in the number of original posts from Forum #1.
- There were only 73 reply posts for this forum. This indicates that not all students followed the recommendation given for excellent participation.
- Observation: # of reply posts increased from Forum #1 by 15 reply posts.

Forum #3

- Ten Students did not submit their posts as only 35 original posts are present.
- Observation: There is a decrease in the number of original posts from Forum #2. Six more students did not post in this forum.
- There were only 112 reply posts for this forum. This indicates that not all students followed the recommendation given for excellent participation.
- Observation: # of reply posts increased from Forum #2 by 39 reply posts.

Forum Data Chart



- DECREASE in Original Post submission participation
 Indication: Fewer Students submitted their original posts towards the end of the semester.
- Indication: More Students responded with reply

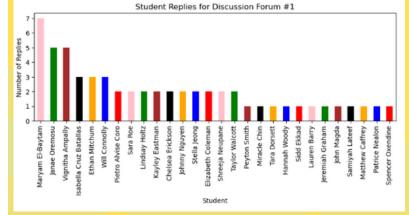
INCREASE in Reply Post submission participation

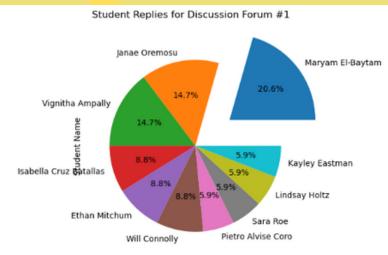
Indication: More Students responded with reply posts towards the end of the semester.

Key Findings

28 Students added reply posts for Discussion No.1

Maryam El-Baytam 5 Janae Oremosu Vignitha Ampally 5 Isabella Cruz Batallas 3 Ethan Mitchum 3 Will Connolly 3 Pietro Alvise Coro 2 Sara Roe 2 2 Lindsay Holtz Kayley Eastman 2 2 Chelsea Erickson 2 Johnny Nguyen 2 Stella Jeong Elizabeth Coleman 2 Shreeja Neupane 2 Taylor Walcott 2 Peyton Smith 1 Miracle Chin 1 Tara Dorsett 1 Hannah Woody 1 Sidd Ekkad 1 Lauren Barry 1 Jeremiah Graham 1 John Magda 1 Samiyah Lateef 1 Matthew Caffrey 1 Patrice Nealon Spencer Oxendine 1



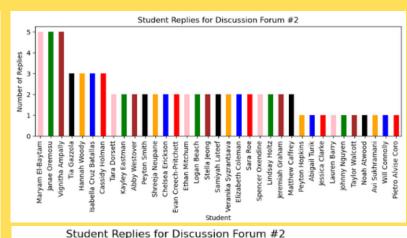


- followed the forum recommendation by posting at least 5 comments:

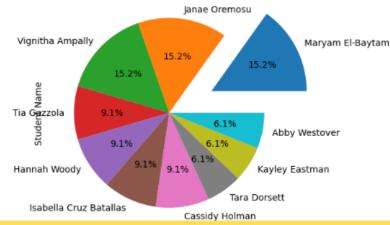
 Maryam, Janae,
 Vignitha.
- 17 Students did not post any comments for any original posts.
- Maryam El-Baytam
 has posted the
 highest number for
 comments for
 discussion forum
 #1.

#35 Students added reply posts for Discussion No.2

- **Same Three Students followed** the forum recommendation by posting at least 5 comments: Maryam, Janae, Vignitha.
- 10 Students did not post any comments for any original posts.
- This time, 7 more students responded to posts compared to Forum #1.
- Maryam El-Baytam has posted the highest number for comments for discussion forum #2.
- Maryam El-Baytam Janae Oremosu 5 5 Vignitha Ampally Tia Gazzola 3 Hannah Woody 3 Isabella Cruz Batallas 3 Cassidy Holman 3 2 Tara Dorsett Kayley Eastman 2 Abby Westover 2 Peyton Smith 2 Shreeja Neupane 2 Chelsea Erickson 2 Evan Creech-Pritchett 2 Ethan Mitchum 2 Logan Beach 2 Stella Jeong 2 Samiyah Lateef 2 Veranika Syzrantsava 2 Elizabeth Coleman 2 2 Sara Roe 2 Spencer Oxendine Lindsay Holtz 2 Jeremiah Graham 2 Matthew Caffrey 2 Peyton Hopkins 1 Abigail Turik 1 Jessica Clarke Lauren Barry 1 Johnny Nguyen 1 Taylor Walcott 1 Noah Atwood 1 Avi Sukhramani 1 Will Connolly 1 Pietro Alvise Coro

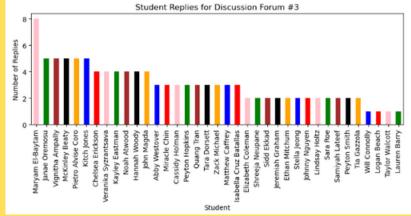


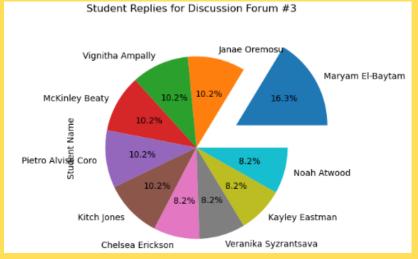




#37 Students added reply posts for Discussion No.3

Maryam El-Baytam Janae Oremosu Vignitha Ampally McKinley Beaty Pietro Alvise Coro Kitch Jones Chelsea Erickson Veranika Syzrantsava Kayley Eastman 4 Noah Atwood 4 Hannah Woody 4 John Magda 4 Abby Westover Miracle Chin 3 Cassidy Holman Peyton Hopkins Quang Tran Tara Dorsett Zack Michael Matthew Caffrey Isabella Cruz Batallas Elizabeth Coleman Shreeja Neupane Sidd Ekkad Jeremiah Graham Ethan Mitchum 2 Stella Jeong Johnny Nguyen Lindsay Holtz Samiyah Lateef Peyton Smith Tia Gazzola Will Connolly 1 Logan Beach Taylor Walcott Lauren Barry



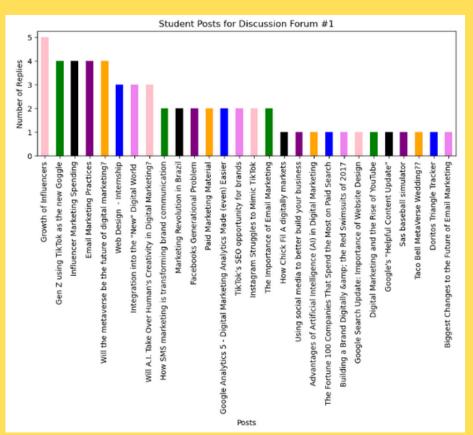


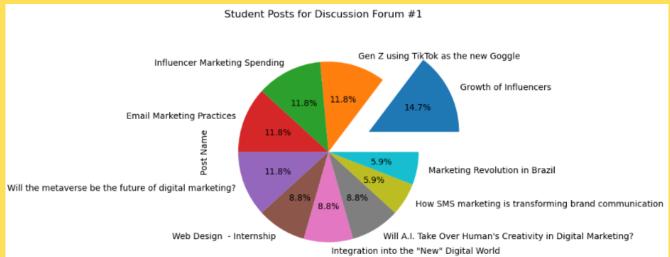
- Six Students followed the forum recommendation by posting at least 5 comments: Maryam, Janae, Vignitha, McKinley, Pietro, Kitch.
- This time, 3 more students responded to posts with at least 5 comments.
- 8 Students did not post any comments for any original posts.
- This time, 2 more students responded to posts compared to Forum #2.
- **Maryam El-Baytam** has posted the highest number for comments for discussion forum #3.

Key Findings Continued

28 original posts received reply posts in Discussion No. 1



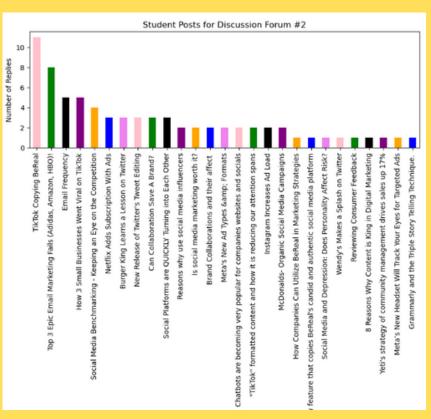


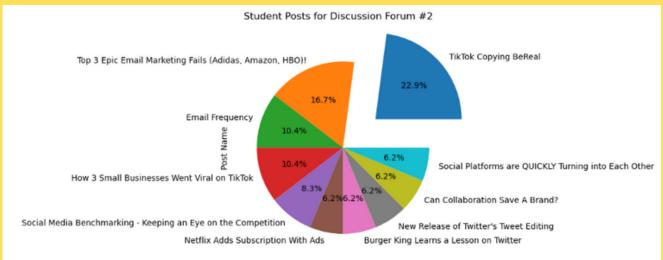


- The top five posts with most replies include:
- a. Growth of Influencers with 5 replies
- b. Gen Z using TikTok as the new Goggle with 4 replies
- c. Influencer Marketing Spending with 4 replies
- d. Email Marketing Practices with 4 replies
- e. Will the metaverse be the future of digital marketing? with 4 replies
 - The Post Named 'Growth of Influencers' received the most replies.

27 original posts received reply posts in Discussion No. 2

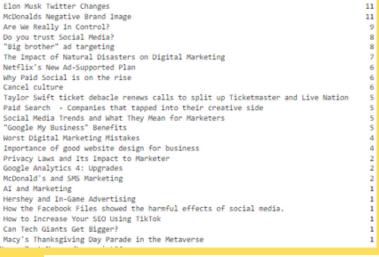


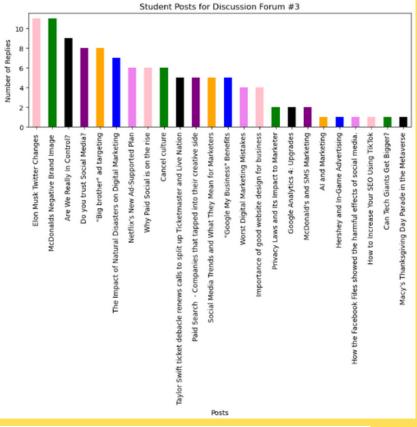


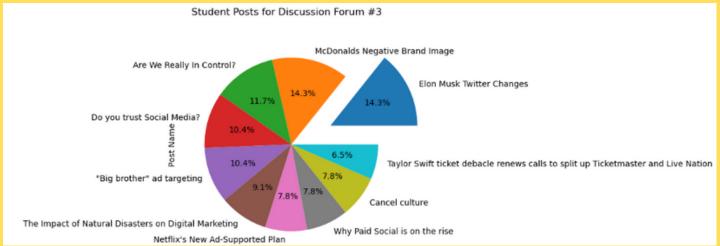


- The top five posts with most replies include:
- a. TikTok Copying BeReal with 11 replies
- b. Top 3 Epic Email Marketing Fails (Adidas, Amazon, HBO)! with 8 replies
- c. Email Frequency with 5 replies
- d. How 3 Small Businesses Went Viral on TikTok with 5 replies
- e. Social Media Benchmarking Keeping an Eye on the Competition with 4 replies
 - The Post Named 'TikTok Copying BeReal' received the most replies.

24 original posts received reply posts in Discussion No. 3







- The top five posts with most replies include:
- a. Elon Musk Twitter Changes with 11 replies
- b. McDonalds Negative Brand Image with 11 replies
- c. Are We Really In Control? with 9 replies
- d. Do you trust Social Media? with 8 replies
- e. "Big brother" ad targeting with 8 replies
 - The Post Named 'Elon Musk Twitter Changes' received the most replies.

Digital Marketing Social Media Platforms





















Instagram Fac

Snapchat

Twitter

LinkedIn

Youtube

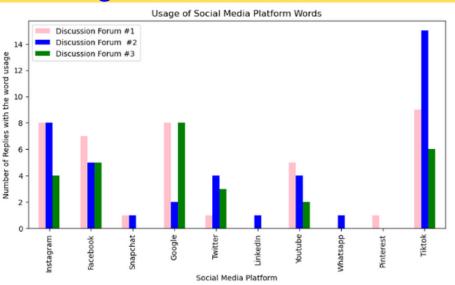
Pinterest

TikTok

Google

DATA demonstrating the usage of the social media platform words in the Original Posts

	Discussion Forum #1	Discussion Forum #2	Discussion Forum #3
Platform Name			
Instagram	8	8	4
Facebook	7	5	5
Snapchat	1	1	0
Google	8	2	8
Twitter	1	4	3
LinkedIn	0	1	0
Youtube	5	4	2
Whatsapp	0	1	0
Pinterest	1	0	0
Tiktok	9	15	6
Total	40	41	28



Key Findings

- During the time period where Discussion Forum #1 was open, more students focused on writing posts involving the social media platforms TikTok, Instagram, and Google.
- During the time period where Discussion Forum #2 was open, more students focused on writing posts involving the social media platform *TikTok*, *Instagram*, *Facebook*.
- During the time period where Discussion Forum #3 was open, more students focused on writing posts involving the social media platform *Google, TikTok, Facebook*.
- During the time period where Discussion Forum #1 was open, 40 of the posts involved at least one of the social media platform keywords displayed above.
- During the time period where Discussion Forum #2 was open, 41 of the posts involved at least one of the social media platform keywords displayed above.
- During the time period where Discussion Forum #3 was open, 28 of the posts involved at least one of the social media platform keywords displayed above.

OBSERVATION: The usage of these words decreased by the time we reached to Forum #3.

Based on the bar plot above, we can see that the least discussed social media platforms in our class during the discussion forum time periods include **Snapchat**, **LinkedIn**, **WhatsApp**, **Pinterest**.

Other Findings

- Five students talked about Omnisend in Discussion Forum #1. (5 original posts)
- One student talked about Omnisend in Discussion Forum #2. (1 original post)
- Five students talked about Trimark in Discussion Forum #2. (5 original posts)
- One student talked about Trimark in Discussion Forum #2. (1 original post)

IMPLICATION: Key Takeaways are indeed very helpful in explaining the digital marketing concepts.