Personalized Email Drip Campaign Creator for ABM

Group Members:

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1. Github Code Repository

Link to Repository:

https://github.com/Mohanish-5744/OS-Hackathon-FinalAssignment-DriftCampaign-Mohanish.git

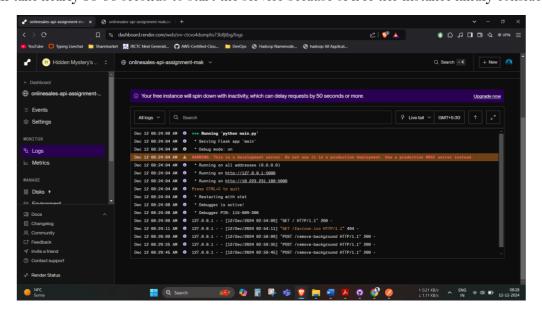
• Also shared the repository link with hackathon@onlinesales.ai and also grant acces for the same.

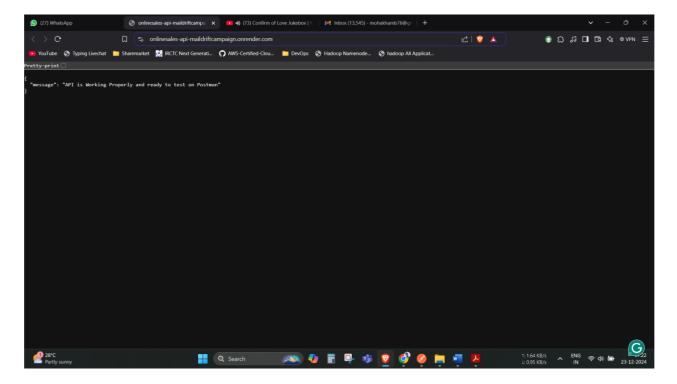
2. API Hosting

API is deployed on the Render Website Link for the same is given below:

https://onlinesales-api-maildriftcampaign.onrender.com/

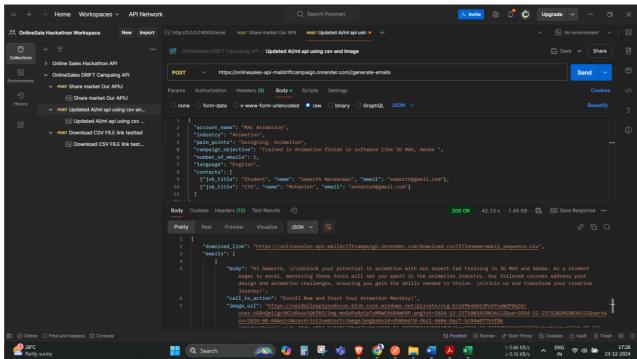
It will take nearly 30-50 seconds to start the service because of free tier instance kindly consider this issue.





Testing link of API through Postman:

https://onlinesales-api-maildriftcampaign.onrender.com/generate-emails



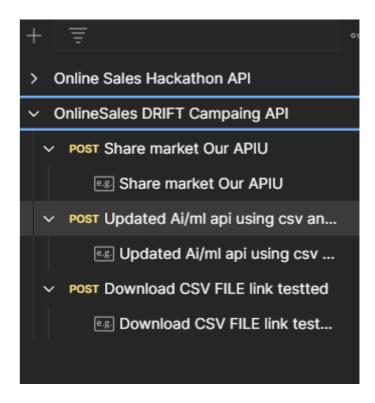
3. Postman Collection:

There is a collection name called OnlineSales DRIFT Campaing API for testing API and created workspace and given access to email hackathon@onlinesales.ai. The collection is also uploaded on the GitHub repository link for the same is given below:

https://github.com/Mohanish-5744/OS-Hackathon-FinalAssignment-DriftCampaign-Mohanish/blob/main/Collections/OnlineSales%20DRIFT%20Campaing%20API.postman_collection.json

We have tested it first locally and then by deployable link.

We have tested using inputs using deployable link and collections photo as below



4. Documentation

How to set up and run the code locally.

- 1. Clone the repository in your local system.
- 2. Open API folder on IDE(VS Code)
- 3. Install requirements.txt file given in repository in the local machine using below command make sure python is install on your computer.

Command -> pip install -r requirements.txt

4. Now open terminal and put below command to run api you will get below output in the terminal

Command-> python app.py

You will get below output

- * Serving Flask app 'app'
- * Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

- * Running on all addresses (0.0.0.0)
- * Running on http://127.0.0.1:5000
- * Running on http://192.168.31.24:5000

Press CTRL+C to quit

- * Restarting with stat
- * Debugger is active!
- * Debugger PIN: 468-603-752

```
* Serving Flask app 'trial'

* Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on all addresses (0.0.0.0)

* Running on http://127.0.0.1:5000

* Running on http://192.168.31.24:5000

Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 468-603-752

127.0.0.1 - [22/Dec/2024 17:39:11] "GET / HTTP/1.1" 200 -

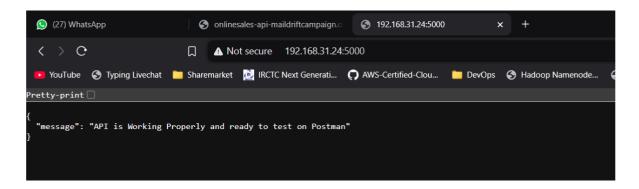
192.168.31.24 - [22/Dec/2024 17:39:15] "GET / HTTP/1.1" 200 -

192.168.31.24 - [22/Dec/2024 17:39:15] "GET / HTTP/1.1" 200 -

192.168.31.24 - [22/Dec/2024 17:39:13] "GET / HTTP/1.1" 200 -

192.168.31.24 - [22/Dec/2024 17:39:13] "GET / HTTP/1.1" 200 -
```

Chek http://127.0.0.1:5000 You will get below message



4. Open Postman and put http://127.0.0.1:5000/generate-emails on Post request and add JSON file below

Input:

```
{
  "account_name": "MAC Animation",
  "industry": "Animation",
  "pain_points": "Trained in software fields like 3D Max Adobe",
  "campaign_objective": "Trained in Development Role ",
  "number_of_emails": 2,
  "language": "English",
  "contacts": [
      {"job_title": "Student", "name": "Samarth Nandanwar", "email": "samarth@gmail.com"},
      {"job_title": "CTO", "name": "Mohanish", "email": "mohanish@gmail.com"}
    ]
}
```

Output:

```
"download_link": "https://onlinesales-api-maildriftcampaign.onrender.com/download-csv?filename=email_sequence.csv",

"emails": [
{
```

"body": "Hi Samarth, \n\nUnlock your potential in animation with our expert-led training in 3D MAX and Adobe. As a student eager to excel, mastering these tools will set you apart in the animation industry. Our tailored courses address your design and animation challenges, ensuring you gain the skills needed to thrive. \n\nJoin us and transform your creative journey!",

[&]quot;call_to_action": "Enroll Now and Start Your Animation Mastery!",

 $"image_url": "https://oaidalleapiprodscus.blob.core.windows.net/private/org-Eo1U9k4AbSJPoV7seW2PDq2d/user-oGBnQp1igcXKlzRsuv3QKfH3/img-mnQoPyRyCp7yMRWCAtB4wPRP.png?st=2024-12-23T10%3A58%3A12Z&se=2024-12-23T12%3A58%3A12Z&sp=r&sv=2024-08-04&sr=b&rscd=inline&rsct=image/png&skoid=d505667d-d6c1-4a0a-bac7-5c84a87759f8&sktid=a48cca56-e6da-484e-a814-9c849652bcb3&skt=2024-12-22T19%3A46%3A28Z&ske=2024-12-23T19%3A46%3A28Z&sks=b&skv=2024-08-04&sig=UwlY41qnYJ86COKFe7jQKv%2BKR7/KCNYhGVxmnacL3rl%3D",$

```
"optimal_send_time": "Tuesday, 10:00 AM",

"subject": "Master Animation with Industry-Leading Tools!"
},
{
```

"body": "Hi Mohanish, \n\nEmpower your team at MAC Animation with our specialized training in 3D MAX and Adobe. As a CTO, you understand the importance of overcoming design and animation hurdles. Our courses are designed to enhance your team's capabilities, driving innovation and efficiency. \n\nLet's collaborate to elevate your animation projects!",

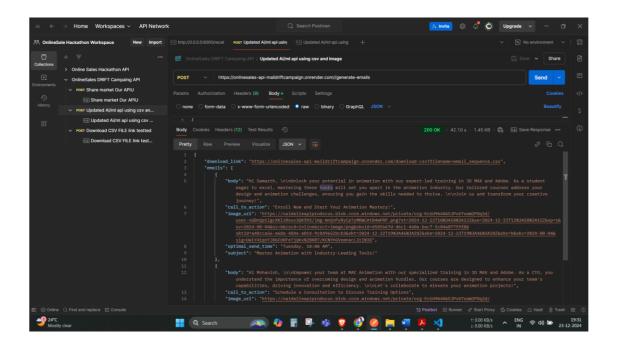
"call_to_action": "Schedule a Consultation to Discuss Training Options",

"image_url": "https://oaidalleapiprodscus.blob.core.windows.net/private/org-Eo1U9k4AbSJPoV7seW2PDq2d/user-oGBnQp1igcXKlzRsuv3QKfH3/img-5P3gnxn9fAoA4BqwqsKMLfGc.png?st=2024-12-23T10%3A58%3A31Z&se=2024-12-23T12%3A58%3A31Z&sp=r&sv=2024-08-04&sr=b&rscd=inline&rsct=image/png&skoid=d505667d-d6c1-4a0a-bac7-5c84a87759f8&sktid=a48cca56-e6da-484e-a814-9c849652bcb3&skt=2024-12-23T02%3A47%3A25Z&ske=2024-12-24T02%3A47%3A25Z&sks=b&skv=2024-08-04&sig=2ld5lQUSu/f2wLRmzr4pEyQWiDNW0MDmZug8mmhana8%3D",

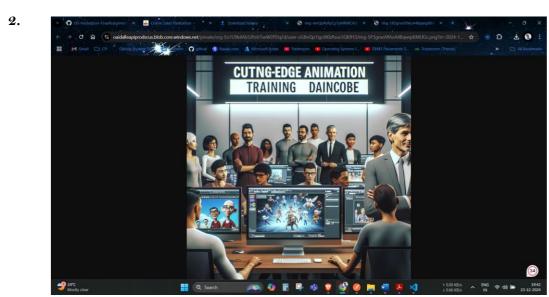
```
"optimal_send_time": "Wednesday, 11:00 AM",

"subject": "Elevate Your Team's Animation Skills with Cutting-Edge Training"
}
```

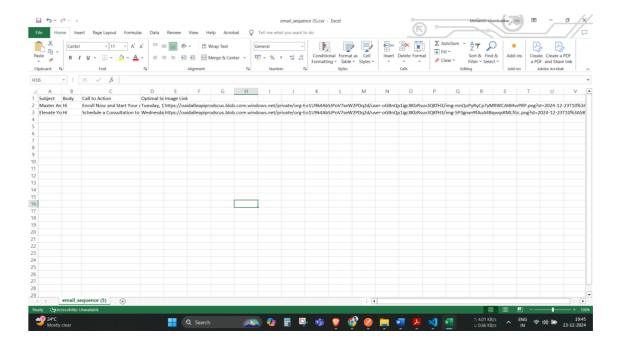
}







CSV File which is downloaded using download link and all the information Subject, Body, Call to Action, Optimal Send Time, Image Link is given in CSV.

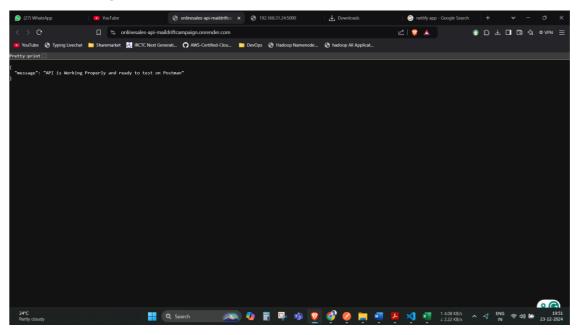


<u>Instructions for API usage (including input/output contracts).</u>

1. For Testing API is working or not use below link:

https://onlinesales-api-maildriftcampaign.onrender.com/

It will take nearly 30-50 seconds to start the service because of free tier instance kindly consider this issue. It will give below output



2. Open Postman, create new collection and test using put below link with POST request and Json file given below according to assignment.

https://onlinesales-api-maildriftcampaign.onrender.com//generate-emails

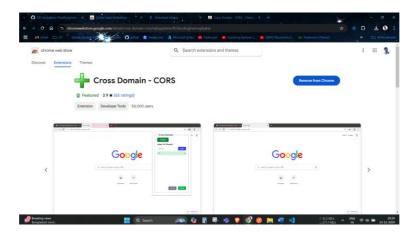
<u>Instructions for using WebSite which is deployed on Netlify Platform and API is Integrated in it.</u>

IMPORTANT NOTE:

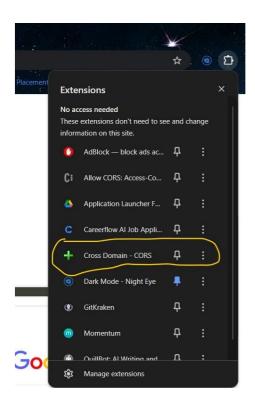
Install below extension before opening deployable link

Download below extension and add it to chrome.

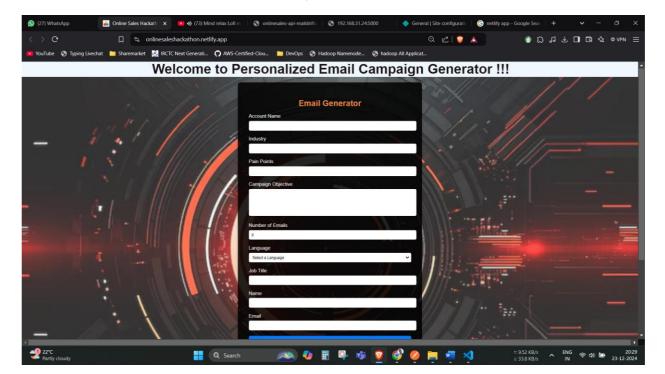
https://chromewebstore.google.com/detail/cross-domain-cors/mjhpgnbimicffchbodmgfnemoghjakai



Verify if Extension is added successfully as seen in image

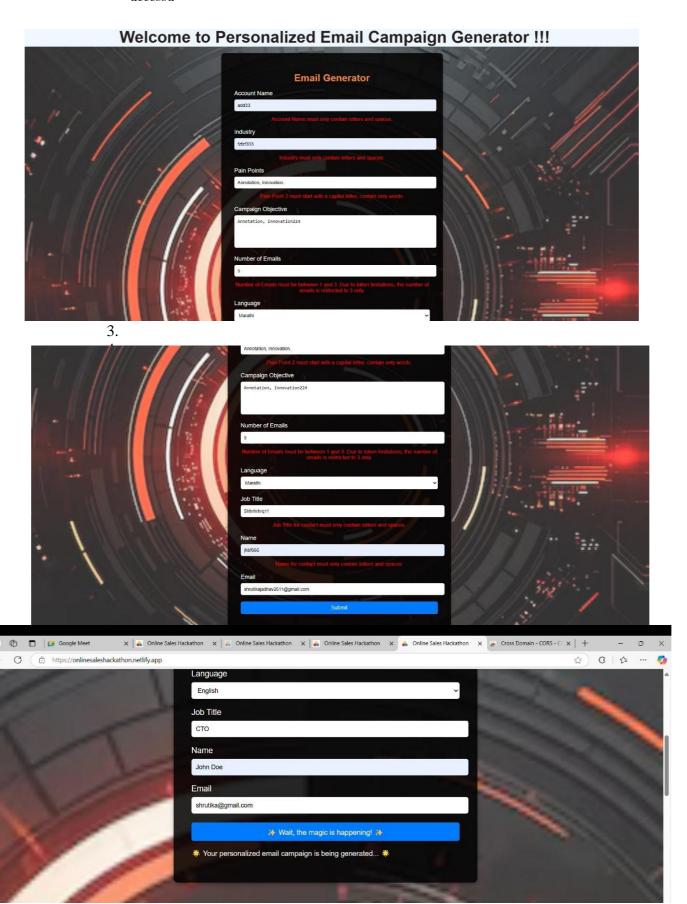


Open below link of deployed Netlify App.
 https://onlinesaleshackathon.netlify.app/

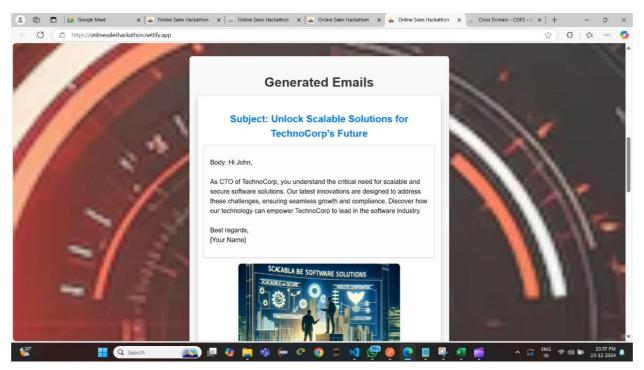


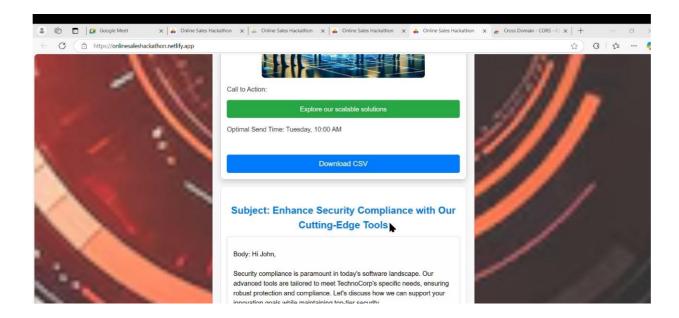
> INPUT VALIDATIONS

2. We must all the validation rules to successfully hit the API otherwise API would not be accessed

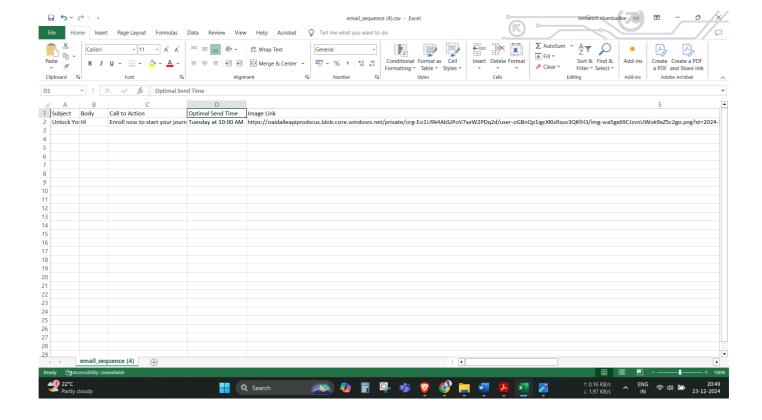


5. Generated Email is generated with language given, Subject, Body, Call to Action, Optimal Send time.





6. Click on Download CSV button it wil download CSV which will contain Subject, Body, Call to Action, Optimal Send Time and Image Link.



A/B Testing Implementation:

We have implemented A/B testing and also test but due to limited no. of tokens we have not implemented it in our API below are the key points and tested result.

- A/B Testing Logic: The code generates email variations for testing by modifying prompts for distinct outputs.
- **Test Group Tagging:** Each variation is labeled (e.g., "Group A" and "Group B") for clear audience segmentation.
- **Image Generation Impact:** As image generation needs a lot of tokens hence we have not added A/B testing into our actual deployed API code.

```
And the details for the early capalign:
Account Name: Miscarding of engineering
Industry: technical education
Contests (comma-separated): quality of content
Contests (comma-separated): quality or granty
Members of Industry
Preferred Language (e.g., inglish, Hindi): english
Generating wariation i...

And lest Email Content With Image Links:

India 1. eroup A:
Subject: Elevate Your Curriculum: Quality Content for Miscardomy
Body: Doar Short! Change
Body: Doar Short! Ch
```

```
Email 3 - Group 8:
Subject: Transform Your Teaching with Superior Content
Body: Hello Shruti Dhumal,

We know that as a lecturer at Mitacademy of Engineering, providing high-quality content is crucial. Our solutions focus on enriching your teaching materials, prioritizing quality over quantity. Let's collaborate to transform your educational offer

Narm regards,
[Your Name]
Call to Action: Discover our premium content solutions now.
Optimal Send Time: Thursday at 10:00 AM

Lange Linix: No Image Generated
```

In above images testing has done for A/B testing and responses are generated as Group A and Group B and in Email 3 with the help of A/B testing email is generated but due to limited tokens there is problem in generating image and for that issue we have not integrated it in our api and website.

<u>Innovation/Special Features added:</u>

- 1. Optimal Send Time.
- 2. Formated CSV download using download link
- 3. Supporting multilingual languages.
- 4. Image generation according to input data and can see in generated email.

Some Features that we could also implement:

- 1. Directly sending Emails from our UI.
- 2. Using web scrapping for getting more information for bit more personalize email.
- 3. Suggestion in pain points and campaign objectives

Google Drive Link

https://drive.google.com/drive/folders/1gv63VMF38h3drKFO57wEegge2louyC-d?usp=drive_link

GitHub Repository Link

https://github.com/Mohanish-5744/OS-Hackathon-FinalAssignment-DriftCampaign-Mohanish.git

Video Presentation Link

https://drive.google.com/drive/folders/1-etDLkSfDZg1ntzPVQExyfM9hm4mg8HZ?usp=drive_link

Website Deployed Link

https://onlinesaleshackathon.netlify.app/

Backend Deployed Link

https://onlinesales-api-maildriftcampaign.onrender.com/