CAPTIONED

LINK : https://medium.com/@panavpratapsinghtyagi/captioned-28c68784da3a

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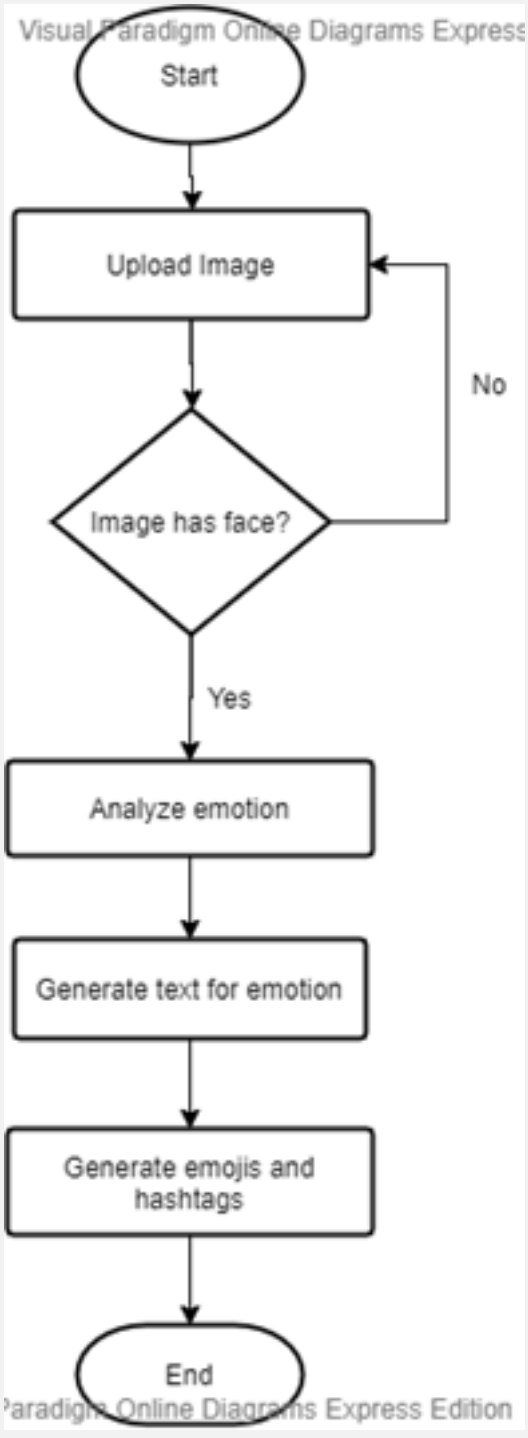
An automated tool to generate captions for your social media posts

As it's said, "a photograph is worth a thousand words". Regardless, this is simply clear if your photo's association draws the thought of the watcher to its subject. In this sense, a subtitle can be considered a creative instrument. One way to attract your watcher's eye to your photo's subject is to use a photography creation rule, for instance, the Rule of Thirds. In that manner, a subtitle can draw in a watcher's eye to a huge piece of your photograph. What isolates an inscription from other creation devices is it can even reason to see the information that is missing in the photo!

Hence, as a part of a generation fixated on posting content on the internet, we chose to make a product that can assist individuals with creating subtitles dependent on the mindset showed in their pictures. We similarly find the robotized inscription age fascinating because it takes into account the necessities of a

content creator or a consumer who preferences posting via web-based media.

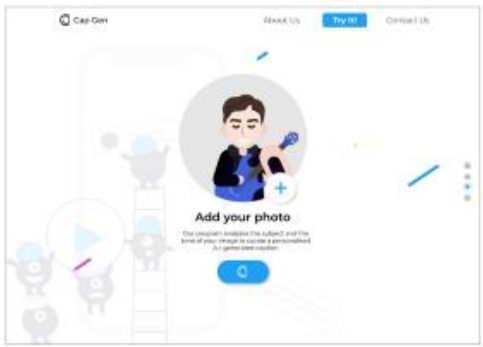


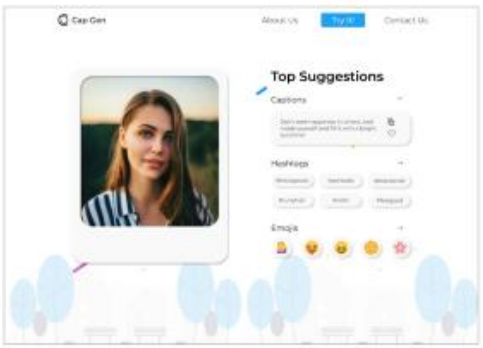
The second part of this project is the text-generation model that was created with the help of a python library for GPT-2, named GPT-2-simple. We scraped text for different emotions from

the web and various social media sites. The text was cleaned using standard corpus cleaning methods and finally, it was consolidated to be used as input for the text-generation model. The GPT-2-simple module was then trained on our corpus and the generated text was both grammatically and contextually correct. Furthermore, the project is available on two interfaces — a website and an android application. The website was created using Flask and the application was developed using Flutter. The project has been deployed on Heroku.

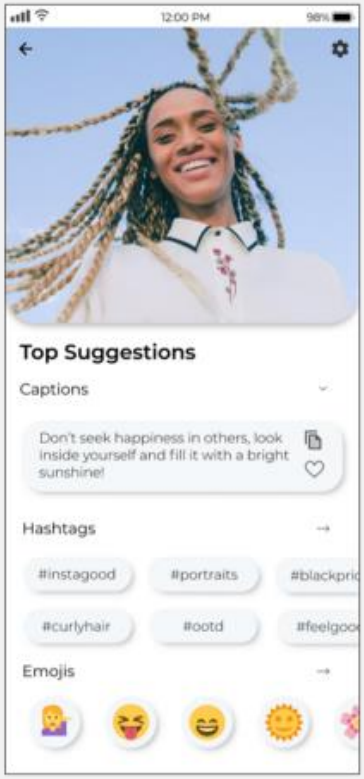
User Interface

The web app and mobile app part of our project are still in their initial stages of development. The application interface is quite simple in nature. Our application has straight forward U.I. implementations and concepts. All the user needs to do is upload the photo of his/her choice that is intended to be posted on the social media platform using the upload button.





After that, the photo will be analyzed by our ML models and an AI-generated caption will be displayed which can be copied by clicking a button. Further, we would be adding in certain features that let you see the word count and some other insights regarding the caption and other related things.



Conclusion

Captions are a powerful asset that can be helpful in gathering likes, comments, and can even get an online viewer to connect with you emotionally. Moreover, if your post gets enough traction/engagement, it can land up on the *explore page* which

helps gain a bigger social media following. Therefore, we thought to minimize the extra effort any avid social media user has to put in finding a perfect caption for their image. This project is basically a utility for people who like to post on social media and want a caption that perfectly captures the essence of their image. Our team had a very great time working on this project, learning new technologies, and implementing them. We would like to thank our faculty and HOD for providing us with constant support and guidance.

Thank you for reading!

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- Deep Learning
- NLP
- Social Media
- Emotion Recognition
- Text Generation