[What are the implications of Facebook using AI on your Instagram photos?](https://mail.google.com/mail/u/0/#m_1687311946980019063_m_-6702878528990723286_bzy3)

The world of Artificial Intelligence and Deep Learning that is a subset of it is continuously evolving. But researchers till now had been using already established data sets on the internet for image- recognition. Facebook has developed SEER which can list unlabelled images on the internet.

Facebook has billions of images on Instagram that it is using to create more sophisticated AI deep learning models. In its current research, Facebook is using billions of public images available on Instagram uploaded by people under various hash tag to train and develop their image recognition models. The best among these models have achieved almost 85% accuracy which is very significant.

Researchers have revealed the new AI model and it can train itself from any random group of images available on the internet. This will be a breakthrough in the field of computer vision. The traditional approach used in computer vision involves training the system to identify certain things such as a hut or cow. Several images of such things are used in training and thereafter, the AI in them can identify the same images in new things.

This process was efficient initially but it has become very inconvenient as it requires training the AI for every new thing, else the performance can drop significantly.

The method used by Facebook is termed as self- supervised learning. This approach uses training the model with unlabelled images. The AI trains itself with these images and learns to identify the differences between them. Then it associates the names with the features it has already identified, by viewing some labeled images. This approach requires a lot of data which is gathered from Instagram public photos. Some experts believe that self supervised learning can lead us to develop machines which have common sense of understanding.

But using public photos from instagram comes with a lot of implications. Though Facebook claims to use any public data and it has mentioned in its terms that it can use public data for research but most of the people are not aware that they have agreed to such conditions and their photos are being used for training deep learning models.

Similar techniques are used in Google assistant and Alexa. As training data set is getting larger day by day, this AI deep learning model, SEER, would become even more accurate. This could help Instagram and Facebook generate a lot more features. This deep learning model would be able to do better image recognition which could improve audio captions generated with the help of Artificial Intelligence for visually impaired people. They can even be used to detect any unlawful propaganda or inappropriate images which would further help in preventing cybercrimes.

This self supervised model can also be used in other domains such as medical imaging where such large training data is unavailable. They would generate faster efficient responses with more accurate response and would be a new advancement in the field of medical science.

Facebook has already implemented several such existing algorithms such as VISSL that increases the training speed of any model. It is looking forward to further improve SEER and bring another revolution in the field of deep learning.