Please make a copy of this document and include this in your GitHub repository for your submission, using the tag #AndroidDevChallenge

Tell us what your idea is.

Studies have shown that your heart rate increases in a faster rate when you give someone your phone to show an image on your gallery, only for them to start browsing uninvited. You snatch your phone away, hoping they didn't stumble across one of the intimate photos that may be residing, fully exposed, on your handset. Machine learning may be the solution to this problem, and it comes in the form of a little app called Nude.
We propose Nude for Android as something more than just a vault app. To be a better solution than all of the above because it uses machine learning to do most of the work. Machine learning algorithms sort through your phone's camera roll in search of one's it identifies as nudes. These are automatically grabbed and moved into a private location on the handset, one where snooping kids or a friend without boundaries can't find them.
All you have to do is to click on the scan button and wait for Nude to finish scanning the images in your gallery. Once Nude finds an image containing someone who is nude, it prompts the user to confirm whether the photo should be locked away. If confirmed, the image will be shuttled to a private area where it is secured behind a PIN/Biometric. The photo is deleted from the phone's camera roll, making it more secure.

Tell us how you plan on bringing it to life.

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*We have published a working version of the application in play store a month back. You can find the app **HERE**.*
We would like to know and learn more about On Device ML technology which could potentially improve our detection rate. We would like to provide our users with an option of giving feedback on the media that are detected by the app, retrain our models with that feedback.
On device machine learning can be used to further improve the usability of the app. By learning how frequently the user uses the app we can trigger a mechanism of auto triggering the scanning and auto hiding the images till the users next visit where the user can confirm hiding or simply ignore it and bring it back to the gallery.

Tell us about you.

We are a team of two developers at codepool technologies. We are committed in bringing out the best in class mobile applications powered by AI and ML. We would like to use the power of machine learning in the areas where it was always needed but often ignored. We first started an app “Instacopy” powered by google’s Text Recognition library from ML Kit in order to provide users a way of copying hashtags from an instagram post. As most of the social media apps doesn’t give an option of copying the hashtags or captions in a post this app found to be useful in copying and storing them for later use. Checkout instacopy for android **HERE.**

Next steps.

- Be sure to include this cover letter in your GitHub repository
- Your GitHub repository should be tagged #AndroidDevChallenge
- Don’t forget to include other items in your GitHub repository to help us evaluate your submission; you can include prior projects you've worked on, sample code you've already built for this project, or anything else you think could be helpful in evaluating your concept and your ability to build it
- **The final step is to fill out this form to officially submit your proposal.**