Tell us what your idea is.

This application is the love for the physically disabled as well as normal Human Beings

- The Human Beings which are suffering from Paralysis, GBS, spinal injury and people who can't move their head specially and ya how can you leave the lazy people from using this application especially when they are tired.

The people who can't even move the head movement can use this application on their mobile this will be done by scanning both eyes so that it can keep a track on pupils at that movement our ML will first detect an angle to predict the position on the screen according to the display size of that screen.

This will be done for different types of eyes like

- ★ Normal Eyes
- ★ Specx Eyes
- ★ Extra Brightness /Red Eye
- ★ Dark Area

It also uses eye gaze with gestures on different factors like movement of eyebrows, head movement if possible, resizing of eyes ex. Small or large and then last but not least blinking of eyes.

So in short

- ★ It will work by tracking the pupil of both eyes at the same time.
- ★ Then it will predict the position of the pointer where the user is trying to see.
- ★ By processing that it will provide a mouse pointer on the mobile screen and you can click just by raising or expanding your eyes.
- ★ Also, it will provide Special features like:
    - ○ Typing
    - ○ Screenshot
    - ○ Clicking Images/Videos
    - ○ Emotions Translation
    - ○ On click voice command

This idea enables many users to use every app of Playstore.

Tell us how you plan on bringing it to life.

Using On-Device ML technology to bring the concept to life so that it consume less battery by using MLKit

1. *I have tried different approaches to make my model so I am still working on it to get high Accuracy.*
2. *Google's help in the endeavor:*
   a. *To gain more knowledge about ML and Android .*
   b. *Financial help if possible by investing in the project.*
3. *TimeLine*
   a. *Till Now*
      i. *Idea Planned*
      ii. *Model creation to get High Accuracy for model*
      iii. *Android Integration with both Native and Flutter to check best fit.*
   b. *Till February (Trial Platform Test)*
      i. *Chosen Platform Integration by using flutter or Native Android.*
      ii. *Live UI test in small Scenarios*
   c. *Till April (Test Time)*
      i. *To check the loose points and to make it more fast and Accurate in all conditions especially in Normal and Red eye.*
   d. *1st May*
      i. *App Launch*

Tell us about you.

My name is Harry Sandal I am an Android Developer in Tata Consultancy Company and a freelancer I have done projects on Android using Native Android and Flutter (Android Studio)

- Recently I had made a chatbot hybrid app using flutter chatbot integrated with Dialogflow (V2)which uses NLP as a freelancer.
- Gesture app for toddler of learning the alphabet, counting and paint.

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