Project idea and originality:

a brief summary

PolyGon

is a software integrated in our hardware that gives vision to the visually impaired. It works on using a deep convolutional neural network , which classifies objects in real time through the camera module , the application's enhanced machine learning capability lets anyone take a 3d scan of objects and update it to the existing library to help tim scan better , tim being the personal virtual assistant of the visually impaired ,the application learns it in less than 40 minutes and it can be used by any app users, after this the application wouldn’t say it’s a medicine , it would say it is "x"(medicine brand) hence , enabling the blind to differentite , between different objects , thus there is nothing that a "visually impaired" cannot do.

Rationale:

According to the latest statistics there are 285 millions people who are visually impaired and 30 million people who are blind , this creates an instant urge for a potent yet cost effective solution to their problem , this urged us to work on this project to aid the visually impaired with booming technologies such as AI and machine learning, a well formed young mind and aware citizen form a really strong combinaition , TEAM PolyGon. This disability will drop from 15% to the world to almost 8%, making a world a more effective workplace, and eventually a better place to flourish.

PROJECTT OBJECTIVES:

1. TO PROVIDE A POWERFUL AND COST EFFECTIVE SOLUTION.
2. TO ALMOST ERADICATE VISUAL DISABILITY.
3. TO MAKE IT OFFLINE , AND PROVIDE DEVICE INDEPENDENCY .

Project innovation:

Most people when facing medical issues , consult a doctor and undergo surgery .surgery for visu al impaired can vary from Rs.18000 to Rs.3,00,000 , which is not affordable by many people in the middle class. This idea is set aside from the use of medical aid and is completely dependednt on the ever increasing rate of improvement of technology. A differenet perspective to this problem has opened new paths for improvement