**RECOGNITION OF MEDICINE USING CNN FOR**

**VISUALLY IMPAIRED**

**ABSTRACT**

Giving blind people with great accessibility to their environment is of great demand. People with visual impairments experience a lot of problem in using the modern assistive device that limits their daily basic activities. The level of assistance provided of these special aids does not meet the consumerrequirements and not affordable by the every section of the society. To overcome the some of the limitations of the existing visual aids, in this paper we present the work that helps the visually impaired person with smart glasses to identify the medicine. The name of the medicine can be read by the smart glass system that provides audio signal through the ear phones. The smart glass system reads the medicine name using Convolutional neural network

**Existing System:**

The existing system was with only th bar code scanner sound censor mechanism That was not up to mark

**Disadvantages:**

1.Itcant identify every product

2. Hard to Code The system

**Proposed System:**

The objects present in an image or in a video sequence are detected and identified using the Object recognition techniques like Convolutional neural network, LeNet, Alex Net

**Advantages:**

Images of the medicine are captured using mobile camera. The images are taken in various illumination and in different orientations. In this work identification of two medicine namely Paracetamol, Cetirizine

**Modules**:

We have used almost all of the same libraries which are used in normal ML/DL problems like pandas, numpy, matplotlib, sklearn, Computer Vision,Keras

Stream, Detectionetc.

**Architecture:**



**SOFTWARE REQUIREMENTS:**

OS : Windows

Python IDE : python 3.x and above

Jupyter Notebook,

Anaconda 3.5

Setup tools and pip to be installed for 3.6.x and above

**HARDWARE REQUIREMENTS:**

RAM : 4GB and Higher

Processor : Intel i3 and above

Hard Disk : 500GB: Minimum