# Abstract

This is a vision system innovated to guide the visually challenged. It guides them to prepare coffee with the help of a coffee maker. The system will use a camera which gives live feed to the processing unit as input. This input is assimilated and an audio feedback is sent as an output to the user. The user will be able to call out commands asking for assistance. Appropriate algorithms will be run to process the commands and guide the user accordingly. We will be processing the input video feed through a series of deep learning and machine learning algorithms for different tasks such as raw material detection, coffee maker state information, turning on or off the machine, et al. The system will use Python language as the core language with packages such as OpenCV, NumPY, DragonFly, PyTTSx et al. The entire code will be ported to a open source hardware namely, Raspberry Pi to make the system portable for a user to carry with.