ABSTRACT

A Smart Home Automation system gives versatility to our life. A well-derived system can control anything from daily home appliances to our entertainment systems. Usually a home automation system has different set of connected devices and user has to control and monitor these devices through a mobile App or tablets, but that is not so smart, Smart homes must be artificially intelligent systems that need to adapt themselves based on user actions and surroundings. The systems need to be aware of needs of users and the surroundings in order to predict future actions and also reduce user interaction with the system. Established home automation systems that provide only remote access and control are not that effective in terms of being `smart'.

So in our paper we put forward the concepts of supervised machine learning, Emotion Recognition and Neural wave sensing to build a better intelligent Smart Home system to control our daily home routines to full-fledged workplace experience

Index Terms: - Home automation, Emotion Recognition, Neural wave Sensing, Supervised learning, Smart Home System.