Abstract:

Internet of Things (IoT) and Artificial Intelligence (AI) have received much attention in recent years. Embedded with sensors and connected to the Internet, the IoT device can collect massive data and interact with a human. The data collected by IoT can be further analysed by applying AI mechanisms for exploring the information behind the data and then have impacts on the interactions between human and things. This project aims to design and implement a Smart wearable device and majorly applies the IoT and AI technologies, aiming to help visually disabled persons for exploring knowledge in a manner of easy, active, and aggressive. The designed Smart wearable device can identify objects in the outside environment and give output as an audio format, which adopts the IoT and AI technologies. The learning Smart wearable device intends to help visually disabled person aid them in the primary learning task of identifying objects without the supervision of the third party (parents, teachers, others etc.,) in real life. This Smart wearable device provides a sophisticated technology to visually disabled persons for easy, active, and aggressive learning in daily life.

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