

Abstract:-

LIGHTO is a dual-function smart ceiling light that combines advanced AI algorithms, depth imaging, and sound recognition to monitor and detect falls in real time. Designed for easy installation and affordability, it aims to enhance the safety and quality of life for older adults while maintaining their privacy and independence. **LIGHTO** eliminates the need for wearables or intrusive cameras, leveraging an unobtrusive design that fits seamlessly into any home environment.

Figure 2