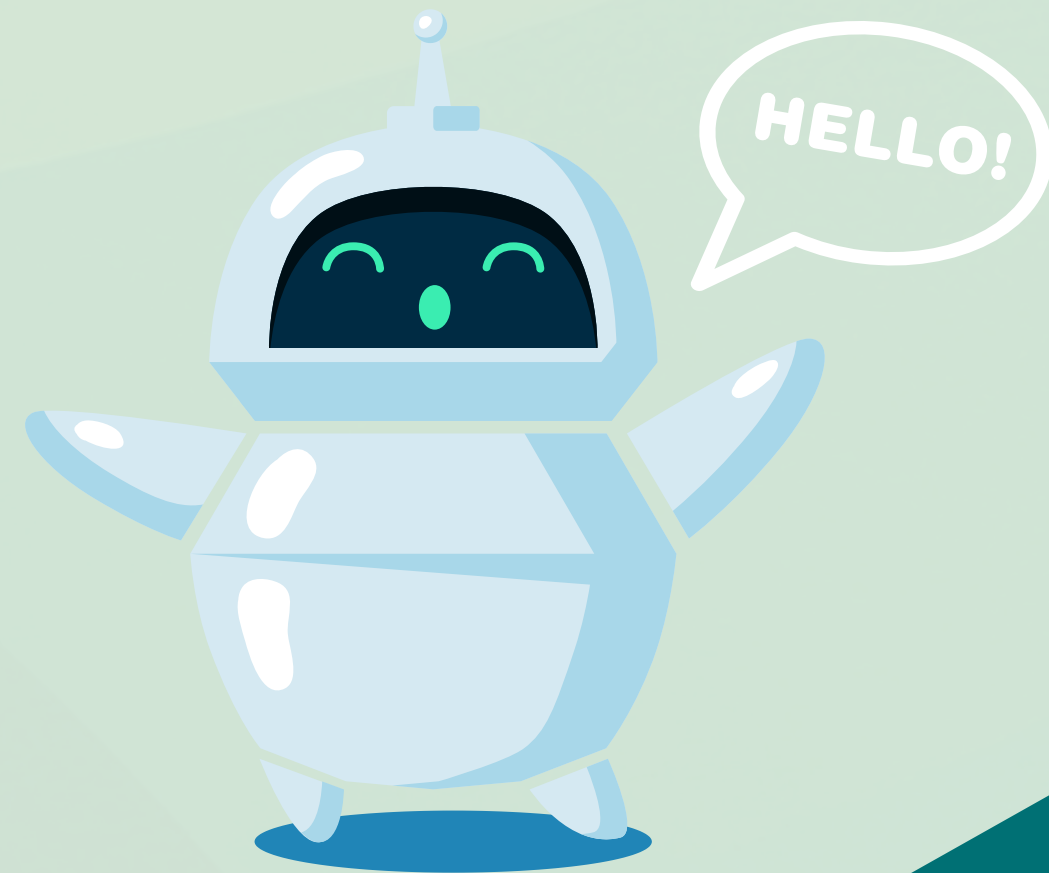


Robot Companions and Caregivers for Seniors

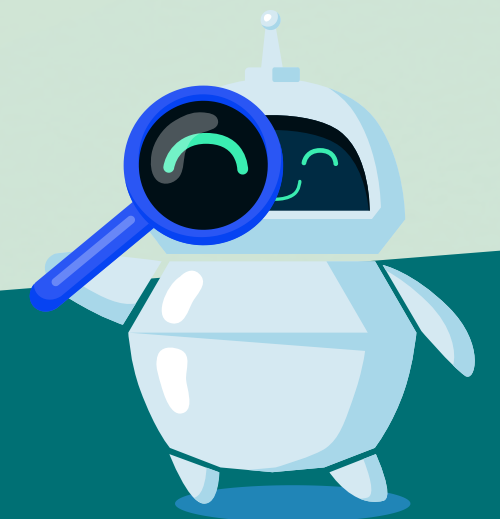


BY ETHAN - ELLA - SANDY

WHY

Robot Companions and Caregivers for Seniors meets the needs of the elderly are met by robot companions and carers for seniors by offering company, useful help, and personalization. They encourage a more inclusive society and lighten the workload for medical professionals.

We have chosen the topic of Robot Companions and Caregivers for Seniors because the care of the elderly shows challenges to many civilizations. Globally, the population of seniors is multiplying. According to projections, the number of persons in the globe who are 60 or older would increase from 901 million in 2015 to 1.4 billion in 2030 and 2.1 billion in 2050.¹⁴¹ According to projections, there would be 434 million "oldest old," or people 80 and older, by the year 2050, up from 125 million in 2015, according to (Baecker,(2019). However, finding adequate care for senior citizens is challenging due to the demographic trend of dropping birth rates, which also lowers the carer support ratio. For instance, it is predicted that in the USA, the ratio of potential family carers aged 45 to 64 to the total number of elderly people in the nation will drop to only seven in 2010 and, in 2050, will be less than three. There will be fewer and fewer people to care for the increasing number of elderly due to the difficulties in hiring and training hired caregivers. For example, this study investigates using robots, particularly the PARO robot, to support older individuals' social and emotional needs as a potential advantage. Robots like PARO can offer companionship and support as the older population rises and social isolation becomes a worry. Previous research has demonstrated the benefits of older persons interacting with PARO, such as enhanced happiness and social network growth. However, there is a need to comprehend how attitudes, engagement, and emotions are connected to interactions between humans and robots using PARO, according to (Nur Lidiya Abdul RASHID(2016)), particularly for older individuals who live independently. The study looks into the attitudes, levels of engagement, and emotional reactions of older individuals to PARO. According to the hypothesis, older persons will view PARO favourably, participate actively, and feel good when interacting with it.



Risks

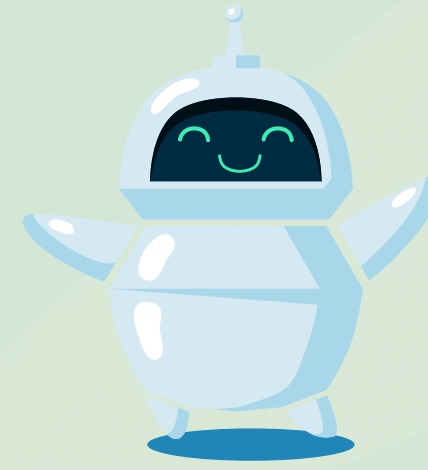
and

Benefits

- **Dependence:** A high reliance on PARO could lead to less social engagement and worsen loneliness.
- **Ethics:** Using robots to provide emotional support raises questions about whether they can replace human compassion and empathy.
- **False sense of security:** PARO is not a replacement for medical care or emotional support provided by a professional.
- **Older persons may develop emotional bonds with PARO,** obfuscating the distinction between robotic companionship and human connections.
- **Technical restrictions:** PARO includes restrictions that could frustrate or disappoint users.
- **Privacy and data security are crucial** since PARO collects personally identifiable information.

- **Providing emotional support and companionship to older persons** through PARO can help them feel less lonely and isolated.
- **Happier:** Research has shown that interacting with PARO makes older persons happier and more content in general.
- **Social interaction:** Older persons who engage with PARO may see an increase in their social circle and frequency of interactions.
- **Emotional response:** In older persons, PARO can arouse feelings of happiness, warmth, and a sense of connection.
- **Improved views:** Older persons typically exhibit good attitudes about PARO and see it as a fun and companionable companion.
- **Support for independent living:** By giving older persons emotional support and lowering their reliance on ongoing human care, PARO can assist them in maintaining their independence.

Team Responsibilities



ETHAN

Ethan has been picked to oversee the creation of the project website because of his experience with HTML. Ethan is qualified to supervise this important assignment due to his extensive technical knowledge and leadership skills. His meticulous attention to detail and expertise in the most recent web development technologies guarantee that the website will be both aesthetically pleasing and user-friendly. Ethan is able to exceed user expectations and produce responsive, intuitive websites thanks to his skills and love of coding. He encourages teamwork and cherishes the opinions of teammates, fostering an inventive and creative work atmosphere. Ethan's project management abilities and dedication to lifelong learning also guarantee that the website will embrace the most recent market trends and best practises.

ELLA

Ella decided to conduct in-depth research for this assignment on Robot Companions and Carers for Seniors. Ella carefully and diligently researches academic papers, corporate reports, and trustworthy sources to assemble the latest data and insights. Ella consults with experts in the field, mixes user feedback and real-world case studies, and then cross-references her findings to deepen her expertise. She organises her research findings and collects helpful sources for later use, providing the project team with a strong foundation for decision-making and innovative solutions. Ella's dedication and perseverance have made the initiative far more successful in meeting the unique needs of seniors through robot companions and carers.

SANDY

Using Ella's research Sandy skilfully and meticulously blended everything together on the presentation slides, ensuring the content is accurate through careful fact-checking. Their background guarantees a credible and well-organized presentation that effectively communicates the findings to the project team. Expertly incorporates Ella's knowledge and research. Sandy meticulously puts together the presentation slides, ensuring accurate content through careful fact-checking and gathering all the refer