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9/18/2022

Dementia

AI - Minor

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Context

Dementia is one of the major causes of disability and dependency among older people worldwide. It can be overwhelming, not only for the people who have it, but also for their carers and families. The impact of dementia on carers, family, and society at large can be physical, psychological, social and economic.

There is often a lack of awareness and understanding of dementia, resulting in stigmatization and barriers to diagnosis and care.

What problem does this technology aim to solve:

The main goals of this project is to mainly reduce variability, improve decision making and aims to assist specialists in the diagnosis of patients with clinical suspicion of dementia.

In what way is this technology contributing to a world you want to live in:

It will be really good to live in a world where people get more acquainted/aware of their physical anatomy and try to work on it at an early stage before it becomes terminal or more serious. This technology aims to do that alongside helping to make decisions earlier.

What are the main users for this technology?

This technology is meant for clinicians/carers mainly targeting to help the older people.

Why is your solution the best?

Could increase accuracy, reduce errors and takes less time.

How is AI/Data used?

This AI will be according to the data given about the people showing some symptoms, behaviors which will be helpful to predict if the person does have dementia or not or what level and at an early stage.

What dataset(s) does it use?

A dataset(s) can be gotten from 'Aging Society' or other sources if not possible.

What is the possible positive and negative impact?

For **positive impacts**, particularly in the early stages, the diagnosis positively impacts the quality of life of both the patient and the family. Early diagnosis can also help people maintain/control behavior and slow the progress of the disease.

A **negative impact** could be shock with disbelief, anger, loss which the person feels after being diagnosed. This response depends on how the person is told about it and level of support available.

It is important for the person with Dementia to receive the message in a positive way and have family/friends available for support and reassurance.