

ABSTRACT

Over the past few years the burden of work and expectations on the students has increased significantly. The ill-effects of this have begun to show in the form of Mental illness such as depression, stress and anxiety among school and college students. For effective treatment early diagnoses is must. Currently self-assessment test are used for pre screening mental disorders by social workers (i.e. school counsellors) which realizes on subjective judgement and for accurate results they need to be administered by trained mental health professionals.

One alternative to these questionnaire can be physiological signal patterns which can be easily recorded via wearable sensors. which may aid in pre-screening of patient.

TARGET CUSTOMER



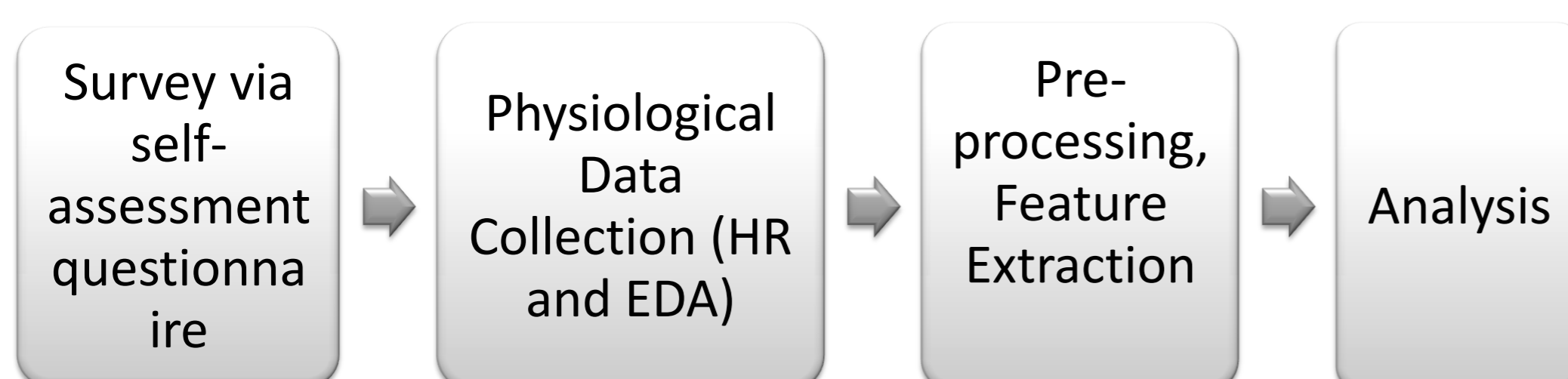
School and College Students

School Counsellor



Government Health Department

METHODOLOGY



PROBLEM DEFINITION

Around 50 million people in India suffer from mental disorders like anxiety, stress and depression. For effective treatment early diagnoses is must. But India has scarce mental health resources with only three psychiatrists for every 1 million of population and only 25% of hospitals have mental health professionals.

Consequently large population have no access to mental health services. Technology enabled solutions can overcome the shortage of healthcare support required for early detection.

UNIQUE INSIGHTS/BENIFITS

Physiological pattern (HR,EDA) of patients suffering depression and anxiety differ from those of healthy persons (James et al 2005, Tarvainen et al 2001, Crews and Harrison 1994, Ying et al 2006, Ling et al 2009, Li et al 2012) and with development of wearable physiological sensors, these physiological pattern can easily be recorded and processed.

PROJECT POTENTIALS

- Early Diagnoses.
- Reduce Healthcare Cost.
- Cover Wide range Population.

KEY IMPLEMENTATION CHALLENGES

- Proof of Concept.
- Partnership for implementation

TEAM DETAILS

PEC University of Technology

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