

# Qualifying Report

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# 1 Overview of Problem

I am interested in whether technology can be used to aid the early diagnosis of dementia specifically by analysing speech and language in a natural environment. As part of this, I am exploring the use of technologies such as the Amazon Echo or Google Home kit to capture speech and language. I am using Natural Language Processing to generate features from the captured speech such that we can categorise people into specific categories and/or predict test results on scores using machine learning.

## 2 Literature Review

## 3 Work already carried out

## 4 Work Plan for the future

## 5 Proposed Timetable

5.1 May 2019

5.2 June 2019

5.3 July 2019

5.4 August 2019

5.5 September 2019

5.6 October 2019

5.7 November 2019

5.8 December 2019

5.9 January 2020

5.10 February 2020

5.11 March 2020

5.12 April 2020

5.13 May 2020

5.14 June 2020

5.15 July 2020

5.16 August 2020

5.17 September 2020

5.18 October 2020

5.19 November 2020

5.20 December 2020

5.21 January 2021

5.22 February 2021

5.23 March 2021

5.24 April 2021

## 6 Provision Table of Contents