# 3rd Year Project Final Report SleepAppnea

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#### Abstract

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## 1 Introduction

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#### 1.1 Subsection Heading Here

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## 2 Medical Information

## 3 Rationale

## 4 The app

## 5 Design Process

5.1 Questionnaire selection

5.2 Signal Analysis - simple method

- 5.3 Machine Learning Theory
- 5.3.1 Support Vector Machines
- 5.3.2 State-Space Models
- 5.3.3 Hidden Markov Models
- 5.3.4 Dimensionality Reduction

 ${\bf Spectrograms} \quad {\rm sdffasdf}$ 

Principal Components Analysis fdsafasd

5.4 Machine Learning - Experiments

## 5.5 Android

## 6 Conclusion

## References

[1] Lawrence Rabiner. A tutorial on hidden markov models and selected applications in speech recognition. *Proceedings of the IEEE*, 77(2):257–286, 1989.