CAPSTONE PROJECT INTRODUCTION

PRESENTED BY:-
VIRENDRA RAJPUROHIT

FACULTY :-
DR. JOE GEIGEL

ADVISOR :-
DR. LEON REZNICK
PROJECT TOPIC

Deriving confidence level v/s accuracy of health applications results for smartphones (android).
Analyzing healthcare android apps, to give a user not only the health statistics but also characteristics of its quality. Quality could be expressed as a confidence interval v/s accuracy.
1. Finalizing which apps will be considered for research.

2. Collecting the Smartphone sensors data and results from different apps into consideration.

3. Research about what are the algorithms an application is using for giving results like step-count and repeat this for all applications in consideration.
3. Calculate the step count using algorithms for specific apps when possible, otherwise use the app results to compare with real count.

4. Tabulate the observed real value and app results.

5. Calculate the error and deviation from real value for each app.
6. Try to get more data and build a model of how the results of apps deviate from real value based on data.

7. Try if we can predict apps results and compare with actual value for some known results for testing purpose.

8. Get a prototype model ready for calculating confidence level of apps step count results i.e. predicting the results accuracy for a range of values of step-count.
Questions

thank you

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