FH Salzburg
MultiMediaTechnology

Identifying the Ideal Length of Time to Record Smartphone Data, in Order to Obtain Distinct Clusters to Predict Eating Crises

Bachelor Thesis 1

Author: Natasha Lauren Troth

Advisor: FH-Prof. DI Dr. Simon Ginzinger, MSc.

Salzburg, Austria, 10.05.2020

Affidavit

I herewith declare on oath that I wrote the present thesis without the help of third persons and without using any other sources and means listed herein; I further declare that I observed the guidelines for scientific work in the quotation of all unprinted sources, printed literature and phrases and concepts taken either word for word or according to meaning from the Internet and that I referenced all sources accordingly.

This thesis has not been submitted as an exam paper of identical or similar form, either in Austria or abroad and corresponds to the paper graded by the assessors.

_____
Date

_____
Signature

_____
First Name   *Last Name*

KURZFASSUNG

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean venenatis nulla vestibulum dignissim molestie. Quisque tristique tortor vitae condimentum egestas. Donec vitae odio et quam porta iaculis ut non metus. Sed fermentum mauris non viverra pretium. Nullam id facilisis purus, et aliquet sapien. Pellentesque eros ex, faucibus non finibus a, pellentesque eu nibh. Aenean odio lacus, fermentum eu leo in, dapibus varius dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin sit amet ornare velit. Donec sit amet odio eu leo viverra blandit. Ut feugiat justo eget sapien porttitor, sit amet venenatis lacus auctor. Curabitur interdum ligula nec metus sollicitudin vestibulum. Fusce placerat augue eu orci maximus, id interdum tortor efficitur.

ABSTRACT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean venenatis nulla vestibulum dignissim molestie. Quisque tristique tortor vitae condimentum egestas. Donec vitae odio et quam porta iaculis ut non metus. Sed fermentum mauris non viverra pretium. Nullam id facilisis purus, et aliquet sapien. Pellentesque eros ex, faucibus non finibus a, pellentesque eu nibh. Aenean odio lacus, fermentum eu leo in, dapibus varius dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin sit amet ornare velit. Donec sit amet odio eu leo viverra blandit. Ut feugiat justo eget sapien porttitor, sit amet venenatis lacus auctor. Curabitur interdum ligula nec metus sollicitudin vestibulum. Fusce placerat augue eu orci maximus, id interdum tortor efficitur.

CONTENTS

Identifying the Ideal Length of Time to Record Smartphone Data, in Order to Obtain Distinct Clusters to Predict Eating Crises

Natasha Lauren Troth

ntroth.mmt-b2017@fh-salzburg.ac.at

Salzburg University of Applied Sciences

ABSTRACT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean venenatis nulla vestibulum dignissim molestie. Quisque tristique tortor vitae condimentum egestas. Donec vitae odio et quam porta iaculis ut non metus. Sed fermentum mauris non viverra pretium. Nullam id facilisis purus, et aliquet sapien. Pellentesque eros ex, faucibus non finibus a, pellentesque eu nibh. Aenean odio lacus, fermentum eu leo in, dapibus varius dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin sit amet ornare velit. Donec sit amet odio eu leo viverra blandit. Ut feugiat justo eget sapien porttitor, sit amet venenatis lacus auctor. Curabitur interdum ligula nec metus sollicitudin vestibulum. Fusce placerat augue eu orci maximus, id interdum tortor efficitur.

1 INTRODUCTION

IN BODY THIS IS TEST INTRO

2 RELATED WORK

Related Work

3 THEORY

in theory

3.1 Data mining

in data mining

3.2 Cluster Analysis

in data mining

3.2.1 Overview of clustering algorithms

Overview Clustering Algs

3.2.2 Dimensionality reduction

Dimensionality Reduction

4 EXPERIMENT

in experiment

4.1 Preparation of the data set

in prep of data set

4.2 Clustering

in clustering

4.3 Clustering after dimensionality reduction

in clustering after dim red

4.4 Comparison and evaluation of clusters of different time lengths

in comparison of diff time lengths

5 DISCUSSION

in discussion.tex

6 CONCLUSION

in conclusion

Appendices

Anhänge löschen, die nicht verwendet werden.

A GIT-REPOSITORY

Das Repository dient zur Dokumentation und Nachvollziehbarkeit der Arbeitsschritte. Stellen Sie sicher, dass der/die BetreuerIn Zugriff auf das Repository hat. Stellen im Sinne des Datenschutzes sicher, dass das Repository nicht für andere zugänglich ist.

Verpflichtende Daten für Bachelorarbeit 1 und 2:

- LaTeX-Code der finalen Version der Arbeit

- alle Publikationen, die als pdf verfügbar sind.

- alle Webseiten als pdf

Verpflichtende Daten für Bachelorarbeit 2:

- Quellcode für praktischen Teil

- Vorlagen für Studienmaterial (Fragebögen, Einverständniserklärung, ...)

- eingescanntes, ausgefülltes Studienmaterial (Fragebögen, Einverständniserklärung, ...)

- Rohdaten und aufbereitete Daten der Evaluierungen (Log-Daten, Tabellen, Graphen, Scripts, ...)

Link zum Repository auf dem MMT-git-Server `gitlab.mediacube.at`:

`https://gitlab.mediacube.at/fhs123456/Abschlussarbeiten-Max-Muster`

B VORLAGEN FÜR STUDIENMATERIAL

Vorlagen für Studienmaterial müssen in den Anhang.

C ARCHIVIERTE WEBSEITEN

`http://web.archive.org/web/20160526143921/http://www.`
`gamedev.net/page/resources/_/technical/game-programming/`
`understanding-component-entity-systems-r3013`, letzter Zugriff 1.1.2016

`http://web.archive.org/web/20160526144551/http://scottbilas.`
`com/files/2002/gdc_san_jose/game_objects_slides_with_notes.pdf`,
letzter Zugriff 1.1.2016