Attitudes Toward a Virtual Smoking Cessation Coach: Relationship and Willingness to Continue

Overview of Steps to Reproduce Analyses

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This is the overall README-file to give you an overview of reproducing our analyses from the paper "Attitudes Toward a Virtual Smoking Cessation Coach: Relationship and Willingness to Continue."

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Requirements

First, please download our dataset from this repository: https://doi.org/10.4121/19934783.v1. Place the folder "Dataset_Acceptance_Virtual_Coach" into the folder this README-file is in.

Types of Analyses

Below we describe how you can reproduce our results for the different types of analyses.

Data Preprocessing

Run the file "preprocess_data.py" to:

  • re-create the file "preprocessed_data.csv" needed for the analyses.

Participant Characteristics

Navigate to the folder "Participant_Characteristics" and follow the instructions in the correspondng README-file to reproduce our results regarding:

  • the participant characteristics reported in the "Participants"-section.

Qualitative Analysis

Navigate to the folder "Qualitative_Analysis" to:

  • see the codes assigned by the two coders,
  • reproduce our average Cohen's Kappa values from the "Analysis strategies"-section,
  • see the final coding schemes, and
  • see the final coding for the two attitude questions.

Note that the participant numbers in the paper (e.g., P1) refer to the rows in the files with the final assigned codes.

Mean Attitude Ratings

Navigate to the folder "Mean_Ratings" and follow the instructions in the corresponding README-file to reproduce our results regarding:

- the mean attitude ratings reported in the "Results"-section.

Bayesian Analysis of Correlations

Navigate to the folder "Correlations" and follow the instructions in the corresponding README-file to reproduce our results regarding:

- the correlations between user variables and attitude ratings reported in the "Results"-section.

Explanation of Files and Folders

This directory contains the following files and folders:

- Correlations: To reproduce our Bayesian analysis of correlations between user variables and attitude ratings,
- Mean_Ratings: To reproduce our mean attitude ratings from the "Results"-section,
- Participant_Characteristics: To reproduce the reported participant characteristics from the "Participants"-section,
- Qualitative_Analysis: Information on the qualitative analysis (e.g., final coding schemes),
- preprocess_data.py: To preprocess the gathered data for use in the analyses, and
- README.md/README.pdf: This README-file.