

## README

This repository contains the data and documentation for a research project. It includes the dataset, which is provided in CSV format, and a codebook that provides a detailed description of the variables used in the dataset.

## Research Information

The research project aims to investigate the perception and utilization of AI-powered tools in dental education. Protocol published: Uribe, S. E., & Maldupa, I. (2023, June 2). Chatbots In Dental Education - Research Protocol. <https://doi.org/10.17605/OSF.IO/3BSG2>. The dataset contains responses from participants who were asked about their awareness, knowledge, and beliefs regarding AI tools in education and their perceptions of its benefits and challenges. The research aims to gain insights into the potential enhancement that AI can bring to dental education.

## Dataset

The dataset file, named "dataset.csv," is in this repository. It contains the raw anonymized data collected from the participants in a structured format. Each row represents a respondent, and the columns correspond to different variables related to their demographic information, experience, perceptions, and opinions regarding AI-powered tools in dental education.

## Codebook

The codebook file, named "codebook.pdf," is also included in this repository. It provides a comprehensive description of the variables present in the dataset. The codebook outlines each variable's meaning, type, and possible values, allowing users to understand and analyze the data effectively.

## Metadata

In addition to the codebook, metadata information is included within the dataset file. This includes details such as the data collection period, survey methodology, and specific instructions or considerations for interpreting the data.

## Usage

To work with the dataset, you can download the "dataset.csv" file and import it into your preferred software or programming language for analysis. The codebook provides valuable information about the variables, allowing you to understand the data structure and make informed decisions during your analysis.

Please note that while every effort has been made to ensure the accuracy and quality of the data, it is important to review the codebook and understand the context of the research before concluding the dataset.

## License

The data and documentation in this repository are provided under the [insert applicable license]. Please refer to the license file for further details on how the data can be used and shared.

## Contact Information

For any questions, clarifications, or inquiries related to the dataset or research project, please contact Assoc Prof Dr Sergio Uribe, [sergio.uribe@rsu.lv](mailto:sergio.uribe@rsu.lv)

## Description of variables in the dataset

1. Year Experience: The number of years of experience in the dental field.
2. Area specialization: The specific area of specialization within dentistry.
3. Are you aware of any AI-powered tools being used in your educational institution?: Whether the respondent is aware of the usage of AI-powered tools in their educational institution.
4. How would you rate your current knowledge of AI-powered tools in education?: Self-rated knowledge level of AI-powered tools in education on a scale of 1 to 5.
5. Have you employed Turnitin or other plagiarism detection software to check academic integrity?: Whether the respondent has used plagiarism detection software for academic integrity checks.
6. Believe AI can enhance dental education?: The extent to which the respondent believes AI can enhance dental education on a scale of 1 to 5.
7. What dental education areas could be most enhanced by AI-powered tools?: Areas of dental education that could benefit the most from using AI-powered tools.
8. Perception of Ease of Use: Perception of the ease of use of AI tools on a scale of 1 to 5.
9. Perception of Support and Training: Perception of the availability of support and training for AI tools on a scale of 1 to 5.
10. Perception of Benefits and Costs: Perception of the balance between the benefits and costs of using AI tools on a scale of 1 to 5.
11. Perception of Replacement of Teaching Methods: Perception of the potential for AI tools to replace traditional teaching methods on a scale of 1 to 5.
12. Perception of Accurate Assessment: Perception of the ability of AI tools to accurately assess students' skills on a scale of 1 to 5.
13. Comfort Level with AI-powered tools: Comfort level with the involvement of AI-powered tools in the evaluation and assessment process on a scale of 1 to 5.
14. Concerns Regarding AI-powered tools: Specific concerns related to the involvement of AI-powered tools in student evaluations and assessments.
15. Potential Benefits of AI-powered tools: Perceived benefits of AI-powered tools in dental education's evaluation and assessment process.
16. Changes for Accommodating AI-powered tools: Suggestions for improving the evaluation and assessment process to integrate AI-powered tools better.
17. Perception Assessment: Ratings of agreement with statements related to AI tools' impact on dental education assessment methods.
18. Perception Impact: Perceived impact of ChatGPT (an AI tool) on various aspects of dental education.
19. Age\_Group: The respondent's age group recoded to protect privacy in ten-year intervals (e.g., 30-39, 40-49).
20. Country: Country of residence of the respondent. Countries with fewer than 10 participants were recoded as "Other" to protect privacy.
21. Continent: Continent of residence of the respondent.
22. Role: Role or position of the respondent in the dental field. Complementary information from the "Other" category has been removed to protect privacy.

**Note:** To ensure privacy, the gender variable has been merged into three options (male, female, and non-binary/prefer not to say), age has been recoded into ten-year intervals, countries with less than 10

participants have been recoded as "Other," and the additional information from the "Other" category in Role and Area specialization has been removed.