

Evaluating LLMs-Driven Java Code Refactoring from a Developer's Perspective (Pre-Questionnaire)

* Indica uma pergunta obrigatória

1. E-mail *

Informed Consent Form

Dear Participant,

You are invited to take part in a research study entitled "Evaluating LLMs-Driven Java Code Refactoring from a Developer's Perspective" whose main objective is to empirically analyze the quality of refactored code generated by LLMs and developers' perceptions of using LLMs to refactor code smells.

1. Procedures

You will be asked to complete a questionnaire containing questions related to your experience and perception regarding software development and the use of LLMs. When the data are transcribed, your name will be removed and will not be used at any point during the analysis or presentation of results. No audio or video recordings will be requested during the study; we will only collect screenshots of the refactoring interactions with the LLMs, which will be discarded after analysis. Your image will not be used or disclosed, thus ensuring your confidentiality.

2. Handling of Possible Risks and Discomforts

Your participation involves answering the questionnaire, using LLMs to refactor code smells from a repository, and then completing another questionnaire about your experience. All necessary precautions will be taken during data collection to ensure your privacy and anonymity. The data collected will be used strictly for research purposes.

3. Research Confidentiality

All information collected during this study will remain confidential. Your name and the name of any organization you are affiliated with will not be identified under any circumstances, unless explicit authorization is provided.

4. Participation

Your participation in this study is very important and completely voluntary. You have the right to decline participation or withdraw from the study at any time. You also have the right to refuse to answer any question in the questionnaire. To participate in this study, you must be at least 18 years old.

Any questions regarding this research can be directed to NAME via email at: EMAIL.

2. Consent Statement *

Marcar apenas uma oval.

☐ I have read, or had read to me, the information contained in this document before signing this consent form. I declare that all technical language used in the description of this research study was satisfactorily explained to me and that I received answers to all my questions. I also confirm that I received a copy of this Informed Consent Form. I understand that I am free to withdraw from the study at any time without any penalty. I declare that I am over 18 years old and freely and voluntarily give my consent to participate in this study.

About You

3. What is your name? *

4. What is your registration number

5. What is your partner's name?

6. What is your most recent degree? *

Marcar apenas uma oval.

- ☐ Bachelor's or Bachelor's in progress
- ☐ Master's or Master's in progress
- ☐ PhD or PhD in progress
- ☐ Outro: _____

7. How many years have you been developing? *

Marcar apenas uma oval.

- ☐ Less than 1 year
- ☐ Between 1 and 2 years
- ☐ Between 3 and 5 years
- ☐ Between 5 and 7 years
- ☐ More than 7 years

8. How many years have you been working with development? *

Marcar apenas uma oval.

- ☐ I have never worked with development
- ☐ Less than 1 year
- ☐ Between 1 and 2 years
- ☐ Between 3 and 5 years
- ☐ Between 5 and 7 years
- ☐ More than 7 years

9. Which of the following positions best matches your current role? *

Marcar apenas uma oval.

- ☐ Software Developer
- ☐ Requirements Analyst or Requirements Engineer
- ☐ Test Analyst or Test Engineer
- ☐ Data Analyst or Data Engineer
- ☐ Project Manager or Scrum Master
- ☐ Outro: _____

About development and previous knowledge

10. How often do you develop? (Per week) *

Marcar apenas uma oval.

1234567

One☐☐☐☐☐☐☐Every day of the week

11. What is your level of knowledge on the topics below? *

Marcar apenas uma oval por linha.

	I don't know	I know a little	I have some knowledge	I know quite a bit	I have extensive knowledge
Java	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code Smells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code Refactoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code Refactoring Techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LLMs (Github Copilot, ChatGPT, in general)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Github Copilot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ChatGPT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Google Gemini	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

About Large Language Models (LLM) and your previous experience

12. For what purposes do you usually use LLMs *

Marque todas que se aplicam.

- ☐ Research and Information Retrieval
- ☐ Content Generation and Creative Writing
- ☐ Development Support
- ☐ Data Analysis
- ☐ Outro: _____

13. How do you use LLMs in relation to development? *

Marque todas que se aplicam.

- ☐ Code Generation
- ☐ Code Refactoring
- ☐ Code Analysis
- ☐ Code Optimization
- ☐ Clarifying Code Issues
- ☐ Outro: _____

14. Which LLMs do you use most frequently?

Marque todas que se aplicam.

- ☐ ChatGPT
- ☐ Github Copilot
- ☐ Google Gemini
- ☐ Outro: _____

15. In your perception, how have LLMs been beneficial or harmful to you?

16. Regarding development, in your perception, how have LLMs been beneficial or harmful to you?

Este conteúdo não foi criado nem aprovado pelo Google.

Google Formulários

