Pre-Study Questionnaire

Welcome to our study on understanding how developers use different LLM prompting techniques for code modification! This study will take a total of about **2 hours**, and you will receive a **$66 Amazon gift card** as compensation for your time.

This questionnaire is designed to collect your demographic information as well as your prior programming experience. Thank you for your participation!

* Indicates required question

Participant ID *

Your answer

First name *

Your answer

Last name *

Your answer

Email *

Your answer

Gender *

○ Male
○ Female
○ Prefer not to say
○ Other:

Age *

Your answer

Occupation *

Your answer

Education level *

○ Undergraduate student
○ Master's student
○ Ph.D. student or candidate
○ Postdoctoral researcher / Graduated
○ Other:

Major *

Your answer

Programming Experience

Years of programming experience *

Your answer

Programming languages you have used (e.g., Java) *

Your answer

Your familiarity with the following programming languages *

	Never used	Learned but unfamiliar with	Familiar with	Very Skilled
Python	○	○	○	○
JavaScript	○	○	○	○
HTML/CSS	○	○	○	○

Have you used the following JetBrains IDEs? (Select all that apply) *

☐ PyCharm
☐ WebStorm
☐ Others, e.g., IntelliJ, CLion, Android Studio
☐ Never used any

Do you have prior experience with the following programming domains? *

	Yes	No
Deep Learning (Training and using neural networks)	○	○
Data Visualization (Creating graphical representations of data by programming)	○	○
Web Development (Building or maintaining websites or web applications.)	○	○

Your familiarity with the following programming techniques *

	Never used	Learned but unfamiliar with	Familiar with	Very Skilled
TensorFlow	○	○	○	○
D3.js	○	○	○	○
Chrome Extension	○	○	○	○

LLM Coding Experience

How often do you use LLMs to assist with programming?

○ Never
○ Rarely
○ Occasionally
○ Frequently
○ Almost always

Which LLM-based tools do you use for programming? (Select all that apply)

☐ GitHub Copilot
☐ Cursor
☐ ChatGPT
☐ Claude
☐ DeepSeek
☐ Other:

How often do you use LLMs specifically for code modification (not just generation)?

○ Never
○ Rarely
○ Occasionally
○ Frequently
○ Almost always

Briefly describe your use cases for using LLMs to modify code, e.g., bug fixing, feature addition, code refactoring, etc. *

Your answer

Which type of LLM assistant do you primarily use for code modification?

○ General-purpose chatbot (e.g., ChatGPT)
○ In-IDE assistant (e.g., Cursor, GitHub Copilot)
○ Both equally