

Why we are doing this research: The goal of this study is to learn about the practices and challenges associated with debugging within Jupyter Notebooks. We aim to understand how developers and data scientists use Jupyter Notebooks for debugging code, what issues they encounter, and how they overcome these challenges. This research will help identify the current methods used for debugging in Jupyter Notebooks and explore ways to improve these practices by leveraging the latest tools and techniques from both industry and academia.

What you will have to do: You will take part in a semi-structured interview, guided by four main topics. You may refuse to participate or withdraw from the study at any time before and during the interview session. The four main topics are:

1. **Background Information:** Understanding your background and experience with Jupyter Notebooks.
2. **Errors Occurred in Notebooks:** Discussing common errors encountered while working in Jupyter Notebooks.
3. **Debugging Practice:** Exploring your current debugging practices and methodologies within Jupyter Notebooks.
4. **Improvement in Future Tools:** Identifying potential improvements and features for future debugging tools.

Potential risks: There are no anticipated risks in taking part in this study, and you are free to leave at any time during the interview.

Privacy: Your responses will be kept anonymous. We do not collect any information that could be used to directly establish your identity.

Audio/Video recording: The interview will be recorded only with your permission.

What we will do with the interview data: The interview recordings are only for our own analysis. We will not release the recordings to any other person or organization. We will summarize the common themes mentioned by you and other participants and report them in a research paper. Your participation and responses will be kept anonymous.

Duration: 0.5 to 1 hour.

Consent: By signing below, you acknowledge that you have read and understood the information provided above, and you agree to participate in this research study on debugging practices within Jupyter Notebooks. You also consent to the recording of the interview, understanding that your responses will remain anonymous and used solely for research purposes.

Participant's Name: _____

Signature: _____

Date: _____