

## **Your Permission for Recording the Interview**

Is it okay if we record this interview? This record will only be used in our own analysis in this study. Your name and the interview record will not be published and will not be released to other people or organizations.

## **Briefly Introduce Our Study**

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.

## **Interview Questions (ask detailed questions in the bullet lists if you do not touch upon them)**

### **1. The Background and Expertise of Interviewee**

- a. Could you share a bit about your educational background?
- b. What is your current job title, and experience in DS?
- c. How many years have you been working as [Job Title X] at [Company X]?
- d. How long have you been working with Jupyter Notebooks?
- e. If you don't have a formal background in computer science, how did you learn coding?

### **2. The Current Practices, Methodologies, and Tools Used in Debugging Jupyter Notebooks**

- a. General Understanding
  - i. What types of errors or issues do you most frequently encounter in Jupyter Notebooks, and at which stage of the data science process do they typically occur?
  - ii. Why do these types of errors keep occurring?
  - iii. What is the general process you follow when debugging a problem in Jupyter Notebooks?
- b. Detailed Practices
  - i. What are some other common debugging techniques you use?
  - ii. Which aspects of debugging do you find most challenging in Jupyter Notebooks?

### **3. Improvement and Opportunities**

- a. What specific information is most crucial when debugging in Jupyter Notebooks?
- b. What debugging features would you like to have?

**Thanks for Your Cooperation**