**SMU-IRB: Participant Information Sheet and Informed Consent Form (Online)**

Title of Research Study as it will be stated on the Informed Consent Form provided to participants: Interview on AI Software Quality Assurance

Principal Investigator, Title, and Affiliation:

WANG Chenyu, Research Engineer, Singapore Management University.

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1. Purpose of Research Study:

This study aims to address the gap in understanding how to effectively ensure the quality and reliability of Artificial Intelligence (AI)-enabled software. In simple terms, we want to find better ways to test and evaluate AI technologies so that they perform consistently, safely, and accurately for users without causing any harm or unintended consequences. This is important as AI software becomes more integrated into our daily lives, impacting various industrial and personal decision-making processes.

While there have been significant advancements in quality assurance (QA) for traditional software systems, research on QA for AI software has not kept up at the same pace. Traditional software QA techniques and practices might not be fully applicable or adequate for AI software, as AI software often involve complex algorithms, learning processes, and dynamic behaviors that differ from that in classic software. Therefore, the proposed study seeks to develop and enhance our understanding of quality assurance methods specifically tailored for AI software, with a focus on identifying and promoting best practices within the industry, ensuring optimal performance and safety in real-world applications.

1. Study Procedures and Duration:

Participation involves attending a one-to-one interview (either in-person or virtually) in which we will ask you some questions relating to overall grasp and awareness of Al software quality assurance, quality assurance practices for the data, the model, the framework, the workflow, and the product, etc. You will also be asked for some demographic information.

It is expected that the interview will take about 60-90 minutes to complete.

Participation in this study is entirely voluntary. You can withdraw from the study, or choose not to answer any specific questions, without penalty.

The interviews will be audio-recorded (with your consent) and subsequently transcribed and the research team will also be taking down some handwritten notes.

1. Benefits of Study:

The study is expected to contribute to the scientific understanding of quality assurance methods specifically tailored for AI-enabled software. By identifying and promoting best practices, the research aims to ensure consistent, safe, and accurate AI performance, minimizing harm and unintended consequences. The findings will bridge the gap between traditional software QA techniques and AI software requirements, fostering the development of reliable and robust AI systems across different sectors. This will ultimately enhance innovation, efficiency, and safety in real-world applications, benefiting organizations and end-users alike.

1. Possible Risks of Study:

The study will involve one-to-one interviews, which may result in the collection of sensitive information related to participants' professional experiences or opinions. In order to prevent such information from being accidentally disclosed or misused, we will ensure that all data is handled securely, participants' identities are anonymized, and strict confidentiality protocols are followed. Please see below for details.

During the interview, you do not need to share any commercially sensitive or confidential information with us. You are free to skip any questions.

Confidentiality and Privacy of Research Data :

The information you provide will be kept strictly confidential. Only the Principal Investigator and his/her co-investigators will have access to the raw data. The interview will be audio-recorded and transcribed. Once the audio-recordings have been transcribed, the recordings will no longer be stored. All transcripts will be stored in a manner where any identifiable information will be masked. Demographic information collected will be aggregated so that it would not be possible to identify individuals.

Anonymized data from this study may be shared with qualified researchers or research institutions, where deemed appropriate, consistent with academic association, journal, or university policies. Any reports from this study will be done at the aggregate level, and/or with individual and company information anonymized or disguised, so that it would not be possible to identify participants or their companies.

1. Contact Details:

* For questions/ clarifications on this study, please contact the Principal Investigator, WANG Chenyu, at email address chenyuwang@smu.edu.sg, and/or office/mobile number: +6593965944.
* If you have any questions or concerns regarding your rights as a participant in this research study and wish to contact someone unaffiliated with the research team, please contact the SMU Institutional Review Board Secretariat at [irb@smu.edu.sg](mailto:irb@smu.edu.sg) or + 65 68281925. When contacting SMU IRB, please provide the title of the Research Study and the name of the Principal Investigator, or quote the IRB approval number (IRB-23-065-E017(523)).
* Please bookmark or save a copy of this information sheet and informed consent form for your records.

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Principal Investigator’s Declaration:

I have explained and defined in detail the research procedures in which the participant (or legal representative) has consented to participate.

I also declare that the data collected for this research study will be handled as stated above.

Wang Chenyu, 4th May 2023

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Principal Investigator’s Name and Date:

Participant’s Declaration:

I understand that participation is voluntary. Refusal to participate will involve no penalty.

I declare that I am at least 18 years of age.

If I am affiliated with Singapore Management University, my decision to participate, decline, or withdraw from participation will have no adverse effect on my status at or future relations with Singapore Management University.

I have read and fully understood the contents of this form, and hereby give consent to the Singapore Management University research team and its affiliates for this project to collect and/or use my data for the purpose(s) described in this form.

By clicking the “Continue/Next” button, I consent to participate in this study and agree to all of the above.

[Continue/Next Button]

If you do not wish to participate in the survey, you may close the browser now to exit.