

Protocol Title: Regression Model Communication through Visualization

Principal Investigators:

Co-Investigator(s):

Thank you for taking the time to participate in our study!

Purpose: The interview study is designed to better understand how regression model performance is assessed and communicated by both data scientists and subject matter experts. During the interview, we will be asking you questions to help us identify your priorities when assessing a model's performance in order to gain trust and confidence in the model. The results of this study will be used to identify visualization techniques that can assist with model performance and assessment.

Exclusion/Inclusion Criteria: We will include participants between the age of 18 to 69, any gender group, who have an elementary knowledge of regression models. For example, if you have worked with or had to assess a common regression model such as linear regression in any capacity at least once in your daily work, you can be an eligible participant to the study.

Procedures: If you decide to be in this study, you will be asked to complete an interview session where several scenarios about regression models are posed and discussed. The session will last no longer than an hour. Audio will be recorded during the session. No personally identifiable information will be stored and every effort will be made to anonymize the participants' responses.

Risks or Discomforts: The risks involved in this study are no greater than those involved in daily activities involving computers. We will be storing the confidential data collected as part of this study on password-protected computers. This study has been reviewed by the *redacted*.

Benefits: You are not likely to benefit in any way from joining this study except contributing to a novel study that may improve the efficacy of regression model performance communication between data scientists and subject matter experts.

Compensation to You: There will be no compensation for participating in this study.

Confidentiality: Your privacy will be protected to the extent required by law. To protect your privacy, your records will be kept under a code number rather than by name. Your records will be kept in password-protected files on *redacted* storage and will only be accessible by the investigators listed on this document. Your name and any other fact that might point to you will not appear when results of this study are presented or published. Recordings will be transcribed and deleted; no link will be maintained that could connect your identity with your responses.

Costs to You: There are no costs to you, other than your time, for being in this study.

Participant Rights: Your participation in this study is voluntary. You do not have to be in this study if you don't want to be. You have the right to change your mind and leave the study at any time without giving any reason and without penalty. If you decide not to finish the study, you have the right to withdraw any data collected from you. Should you decide to withdraw from the study, your questionnaires will be shredded. Any new information that may make you change your mind about being in this study will be given to you. You will be given a copy of this consent form to keep. You do not waive any of your legal rights by signing this consent form.

Questions about the Study: If you have any questions about the study or your rights as a research participant, you may contact *redacted*.

If you verbally consent to this study, it means that you have been read the information given in this consent form, and you would like to be a volunteer in this study.
