



## **Recruitment Form for Research Participation**

**Study Number: e.g., IRB18-XXXX** 

Study Title: Leveraging LLMs to Protect Users Against Targeted Password Guessing

Researcher(s): Manaswi Raj, Harsh Sharma, Vibhor Dave

This is a recruitment form for the research study conducted by the researchers of IIT Kharagpur. Participation is Voluntary.

**Purpose of Study:** We are researchers at the Indian Institute of Kharagpur conducting a study to evaluate the guessability of Large Language Model (LLM)-generated passwords compared to user-generated passwords. This research aims to determine whether LLM-generated passwords, especially when tuned to avoid common user patterns, offer improved resistance against targeted password guessing attacks. Insights from this study may inform better security practices in password generation. Participation is voluntary and will take approximately 20 minutes.

**What to Expect:** Participants will be asked to engage in tasks related to password generation and allow analysis of patterns in their previous passwords. The study may involve secure interactions with a password generation tool. The time commitment is approximately 20 minutes.

Eligibility Criteria: To participate in this study, you must meet the following criteria:

- Be at least 18 years old
- Have experience creating user passwords (no technical background required)
- Be proficient in English and familiar with using computers and the internet

**Recruitment Process:** We plan to recruit a sample of 100-150 participants through various online platforms including social media (e.g., Facebook and LinkedIn), university mailing lists, and forums related to cybersecurity, password security, and general technology interest groups. Recruitment will be done with a focus on diversity and inclusivity. We will specifically target underrepresented racial, ethnic, and socio-economic groups in tech to ensure a sample representative of the larger population. Recruitment materials will be posted for approximately four weeks or until the target sample size is reached.

**Screening Process:** Eligibility screening will be conducted through an online questionnaire that asks about your age, language proficiency, and familiarity with technology. Only eligibility data will be collected, and your responses will be kept confidential. If you meet the criteria and consent to participate, you will be contacted with further details. Ineligible or non-consenting individuals' data will be securely deleted from our records.





**Compensation:** While this study does not provide financial compensation, your participation will contribute valuable insights to the field of password security. By taking part, you will be helping to improve security practices that may protect users from targeted password-guessing attacks in the future.

**Privacy and Confidentiality:** Your privacy is important to us. All data will be anonymized and securely stored. Only the research team will have access to the data. Screening data will be handled in compliance with university data protection policies. If you are ineligible or withdraw from the study, your data will be securely deleted.

**Additional Information:** We will not include vulnerable populations, such as individuals under 18, pregnant individuals, prisoners, or adults with impaired decision-making capacity, in this study. Our recruitment and eligibility screening processes are designed to protect participants' privacy and ensure only eligible adults are included.

**Invitation:** You are invited to participate in this research study. Participation is voluntary, and refusal to participate or withdrawal from the study will involve no penalty or loss of benefits to which you are otherwise entitled.

## **Contacts & Questions:**

If you have questions or concerns about the study, you can contact the researchers at Manaswi Raj( +91 7763878917, manaswiraj195@kgpian.iitkgp.ac.in), Harsh Sharma(+91 8949534933, harshsharma2024@gmail.com), Vibhor Dave(+91 8980444125, vibhor.dave03@gmail.com).

If you have any questions about your rights as a participant in this research, feel you have been harmed, or wish to discuss other study-related concerns with someone who is not part of the research team, you can contact the IIT Kharagpur Social & Behavioral Sciences Institutional Review Board (IRB): phone (773) 702-2915, email sbs-irb@uchicago.edu.

## **Consent:**

Participation is voluntary. Refusal to participate or withdrawing from the research will involve no penalty or loss of benefits to which you might otherwise be entitled.

By clicking "Agree" below, you confirm that you have read the Recruitment form, meet all the Eligibility Criteria, and agree to participate in the research. Please print or save a copy of this page for your records.

L	agree to participate in the research
	do NOT agree to participate in the research