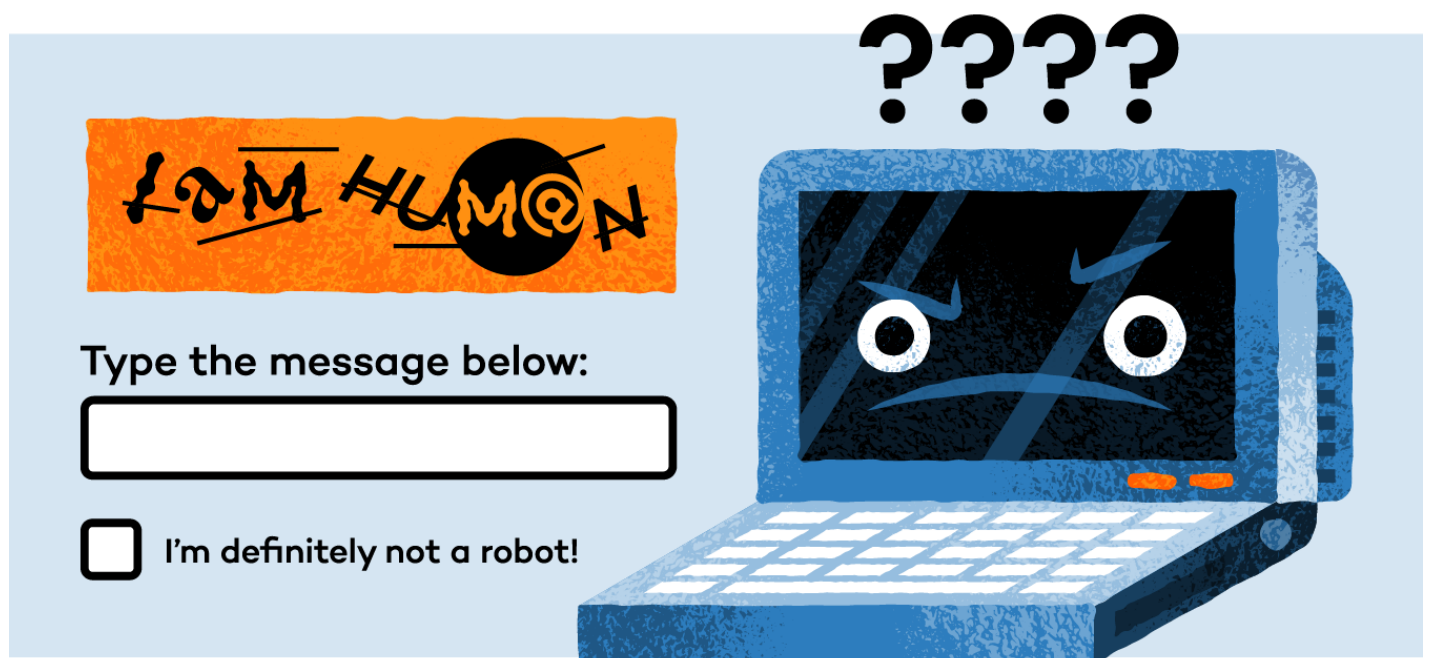**Project Proposal**

Captcha Solving with Deep Learning

TEAM POWER DATA

Aishwarya Kumar

Dhanashree Anil Patil

Lakshmi Holemadlu Venkatesh

Objective

The CAPTCHA has become an important issue in multimedia security. This project is focused on automatic character recognition from multiple text-based CAPTCHA schemes using artificial neural networks (ANNs) and clustering.

The goal is to take captcha letters as an input while outputting transcription of the text presented in the captcha. In this project a framework of text-based CAPTCHA breaking technique is proposed. First, extracting single letter from captcha images. Second, train the neural network to recognize single letters and using this model to solve captchas.

Dataset

Captcha dataset will be obtained by using python captcha module.

```
from captcha.image import ImageCaptcha  # pip install captcha
```

EOD