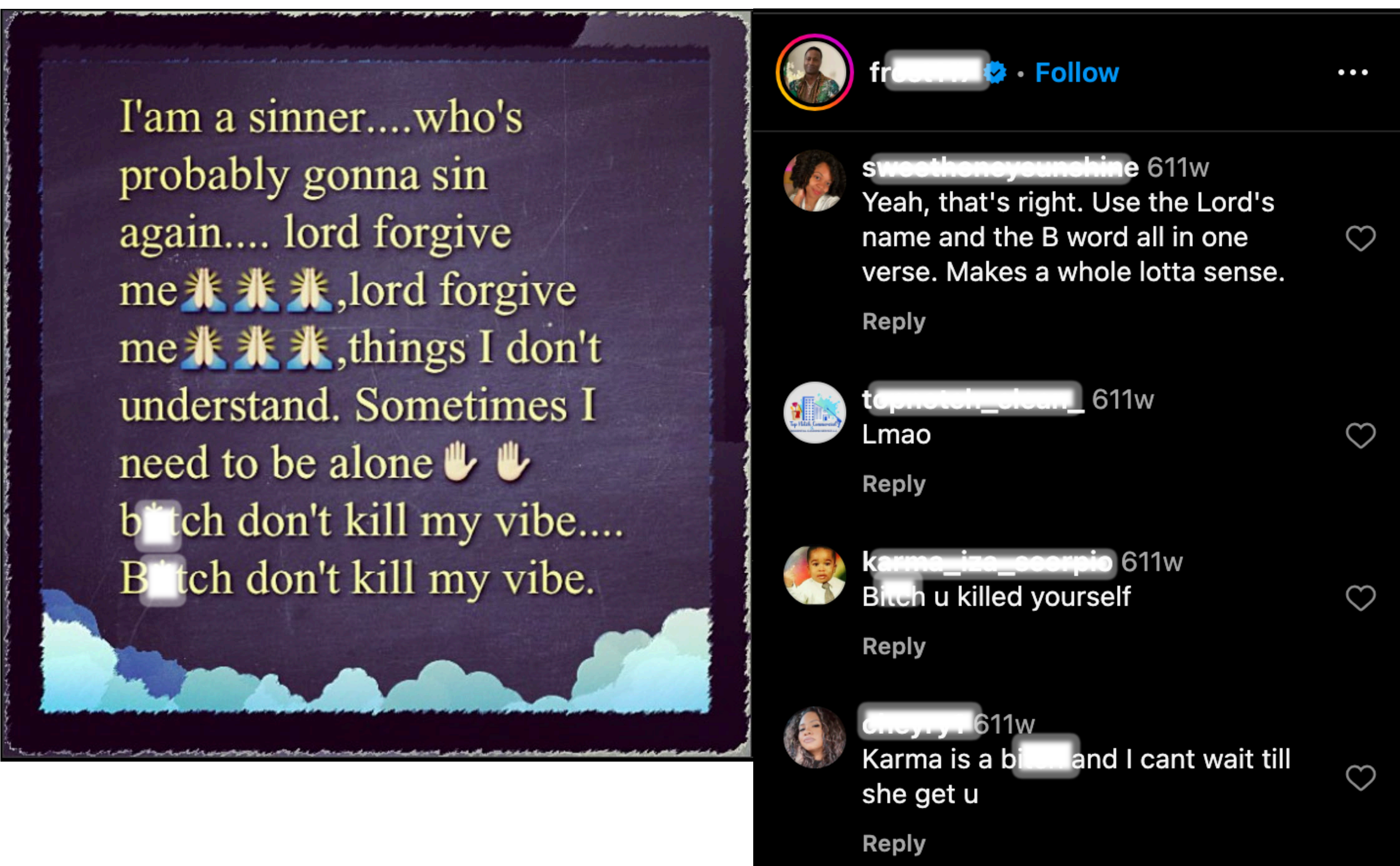
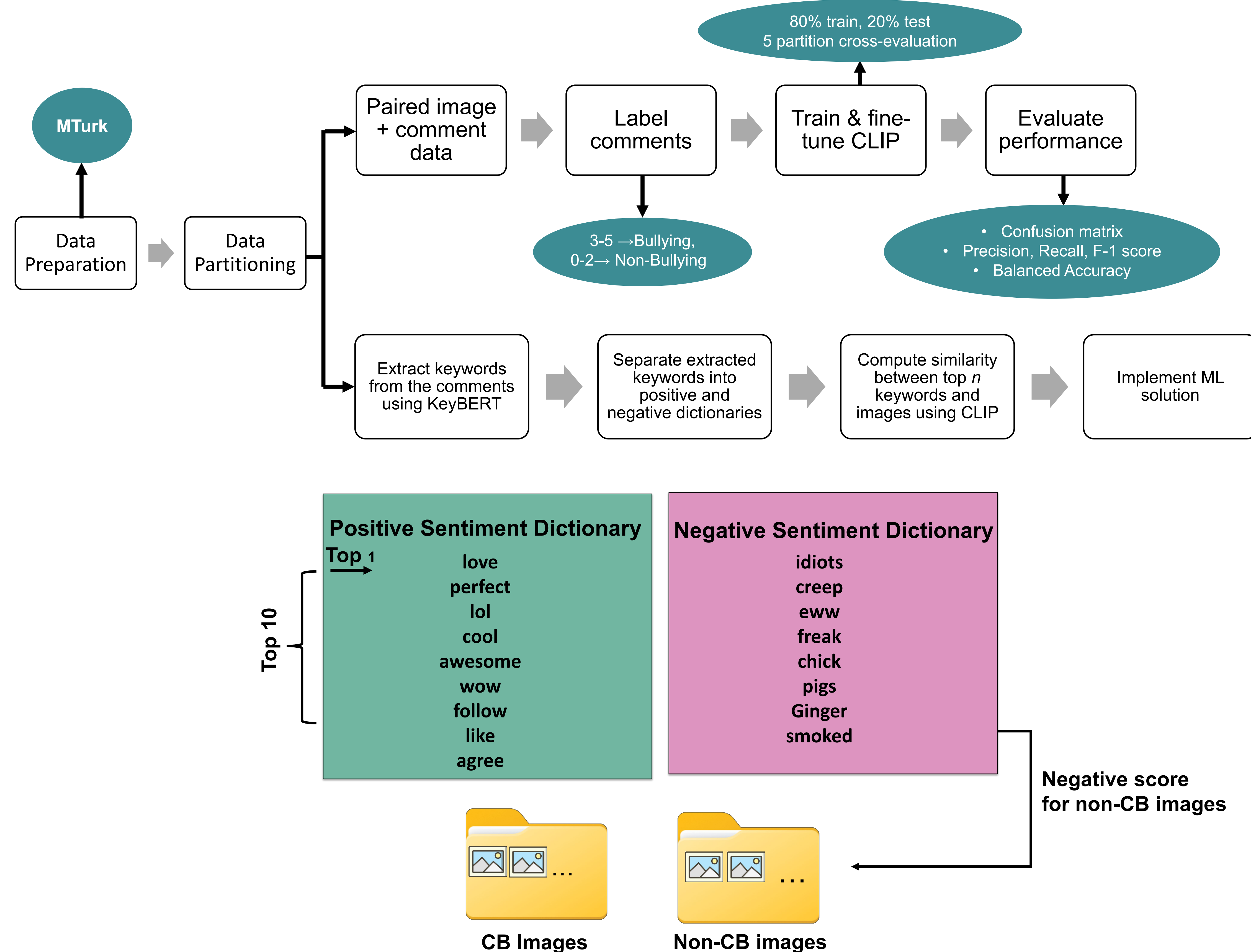


Introduction



Methods

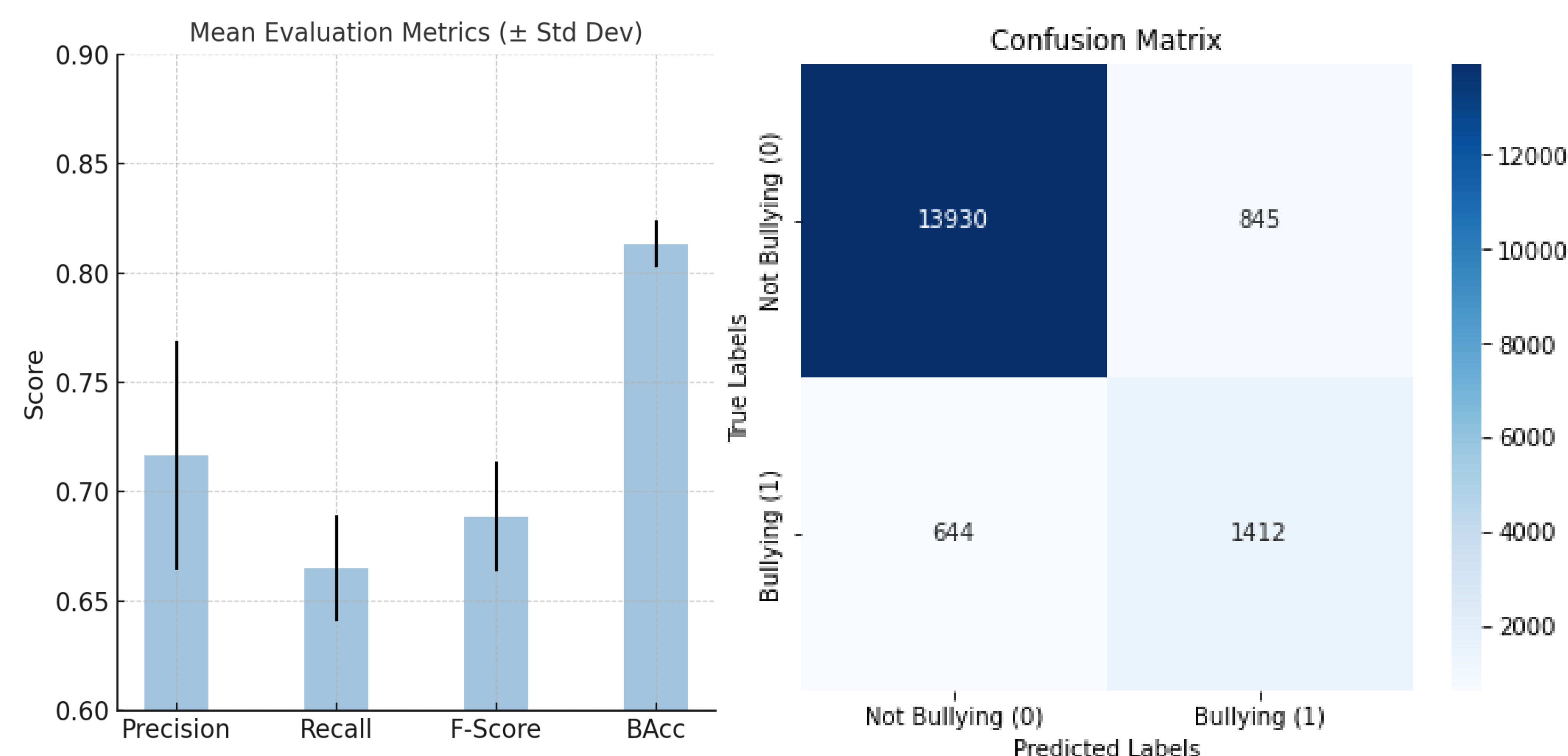


Background & Objectives

- BullyBlocker is a prior development that detects cyberbullying by analyzing social media text.
- Use CLIP to analyze paired Instagram comments and images, identifying bullying with both visual and textual signals.
- Develop and refine a sentiment analysis-driven approach for detecting cyberbullying in images.

Results

Method 1:



Method 2:

CB Images		Non-CB Images	
Positive Score	Negative Score	Positive Score	Negative score
22.75	9.59	28.74	4.11

Future Work

- Perform multimodal classification instead of binary classification
- Incorporate insights from psychological research on language patterns

References

- Y. Silva, D. Hall, C. Rich. BullyBlocker: Toward an Interdisciplinary Approach to Identify Cyberbullying. *Social Network Analysis and Mining (SNAM)*, 8, 1, 2018. DOI: 10.1007/s13278-018-0496-z .
- A. Radford, J.-W. Kim, C. Hallacy, A. Ramesh, G. Goh, S. Agarwal, G. Sastry, A. Askell, P. Mishkin, J. Clark., et al. Learning Transferable Visual Models From Natural Language Supervision. *International Conference on Machine Learning (ICML)*, 2021.
- M. Grootendorst, Keybert: Minimal keyword extraction with BERT, 2020, <http://dx.doi.org/10.5281/zenodo.4461265>.