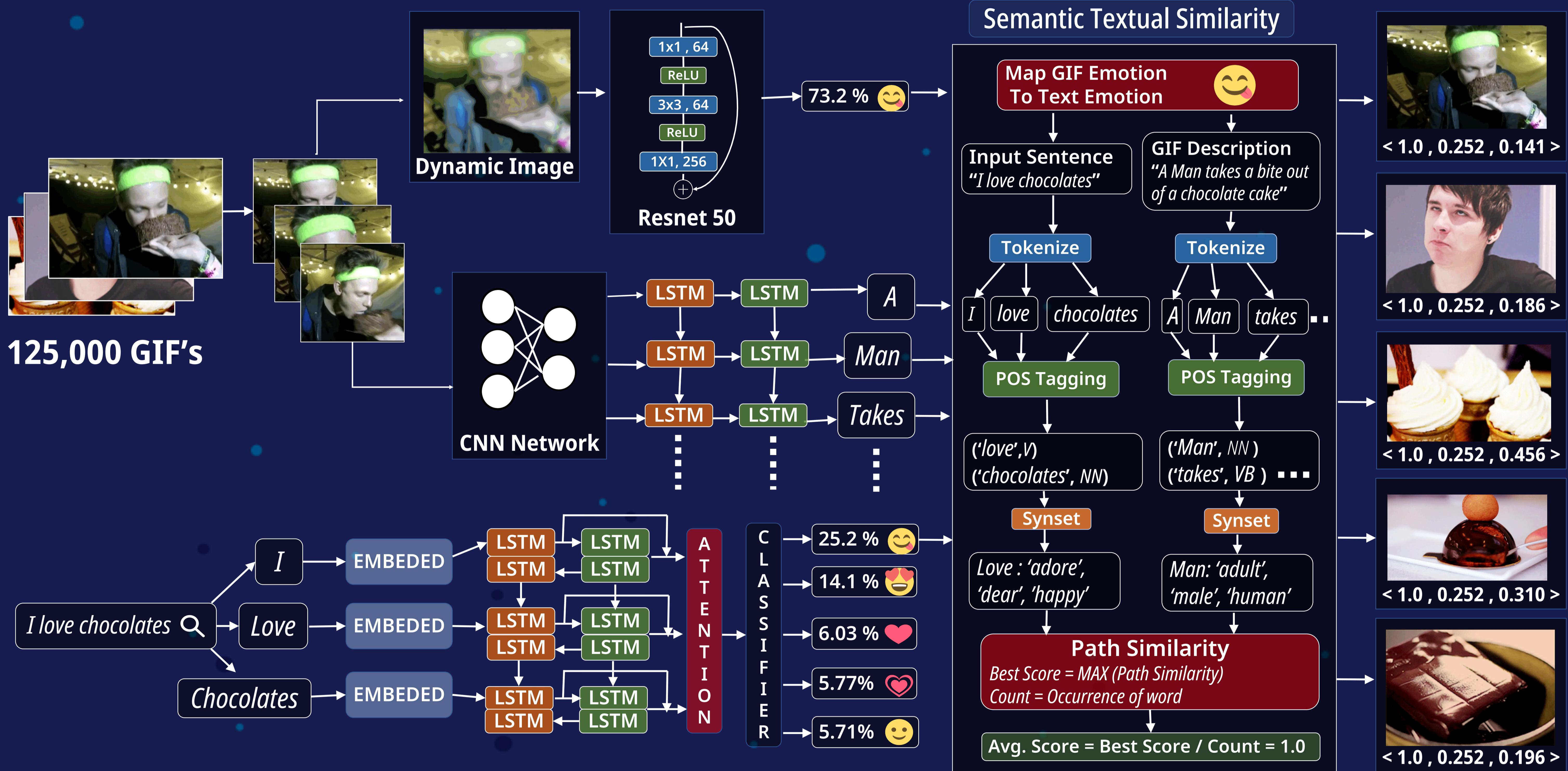


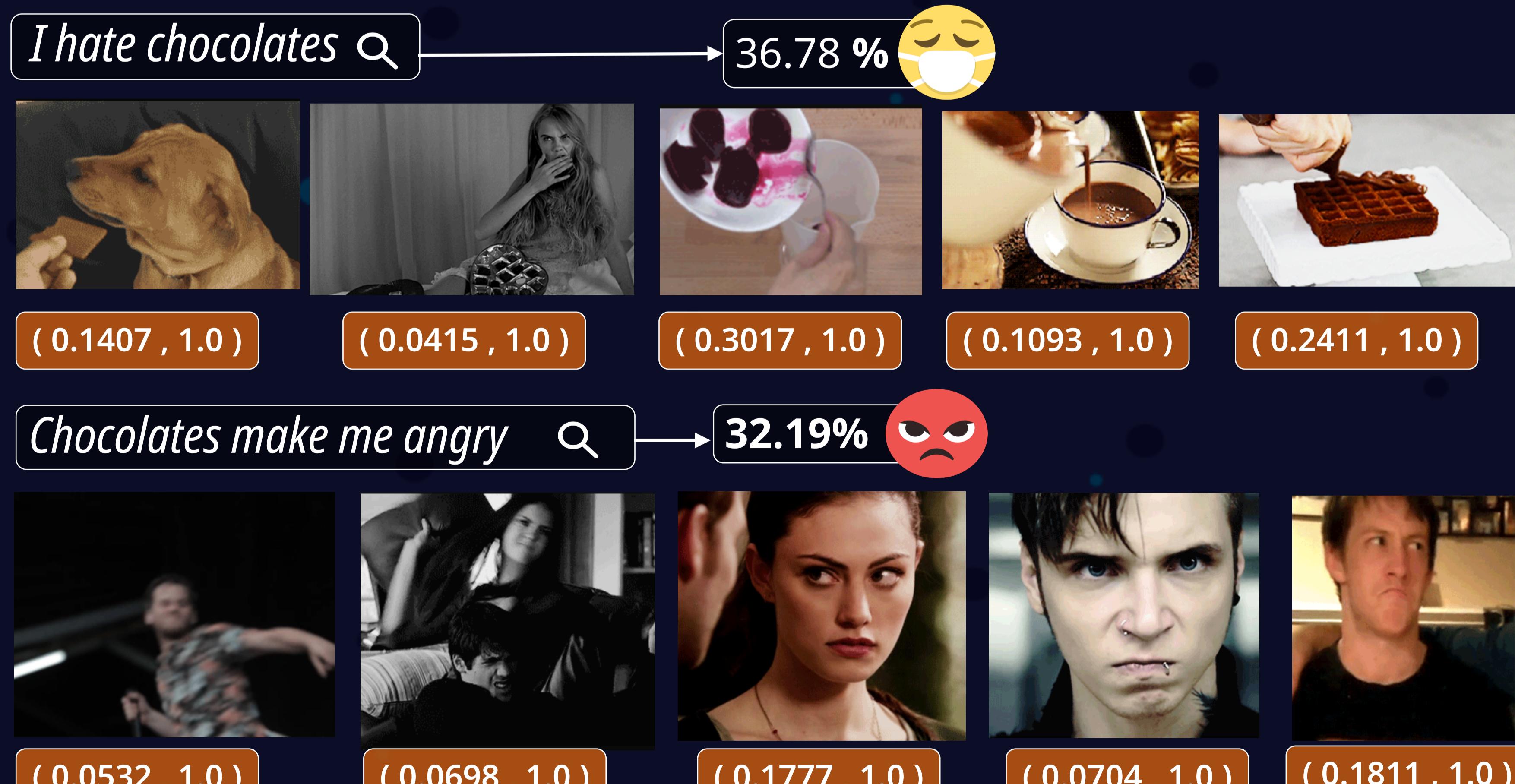
Overview

- Given a text message inputted by the user, our project aims to identify an appropriate GIF that understands the context and sentiment of the message.
- Initially, 125,000 GIFS are processed to get description and emotion out of it.
- Later, the input text's emotion is matched with GIFs and its value is mapped to GIF's description by using *semantic textual similarity*.
- Our model outputs top 5 GIFs which have the same emotion and their descriptions are contextually similar to that of the input text.

Methodology



Results



Conclusions

GIF-to-Emotion:

Model used: *ResNet50*

Accuracy of the model: 64.5%

Text-to-Emotion:

Model used: *LSTM with chain-thaw transfer learning approach*

Accuracy of the model: 82.4%

Text-to-GIF Mapping:

Technique used: *wordnet sentence similarity*

Accuracy: 64.43 %

Key References

- [1] Li, Yuncheng, et al. "Tgif: A new dataset and benchmark on animated gif description." *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*. [2016]
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- [3] <https://github.com/McGillAISSociety/gif-sentiment-analysis/tree/master/rick> [2018]
- [4] <https://nlpforhackers.io/wordnet-sentence-similarity/>
- [5] Chen, Weixuan, Ognjen Oogi Rudovic, and Rosalind W. Picard. "GIFGIF+: Collecting emotional animated GIFs with clustered multi-task learning." *IEEE*, [2017].