CARES: CAuse Recognition for Emotion in Suicide notes
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Produced a gold standard corpus annotated with causal spans for emotion annotated sentences in suicide notes.

Developed a benchmark setup for emotion cause recognition in suicide notes (sentence-level), specifically, cause identification and cause extraction.

We introduce, CARES_CEASE-v2.0, a multi-lingual (English, Bengali, Hindi, Telugu) emotion and cause annotated suicide corpus.

English Suicide Notes: ~320 notes
Non-English Suicide Notes: 67 notes
Total sentences: 5769 sentences

The proposed method performs commendably on the ECE task in suicide notes.

We extended existing CEASE [2] corpus with multilingual data and emotion cause annotations.

The FM and PM metrics give a quantitative estimation of the model’s performance.
The HD, JS and ROS metrics give a qualitative estimation of the model’s performance.
The cross-lingual XLM-R model adapts well to our multilingual data as well as the cause extraction task.

Introduction
Suicide continues to be one of the major causes of death across the world.
Emotion Cause Extraction (ECE) in suicide notes may help comprehend suicide motives and mental state.

Contributions
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Developed a benchmark setup for emotion cause recognition in suicide notes (sentence-level), specifically, cause identification and cause extraction.

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Methodology

Results I - Cause Identification Task
Learning the two tasks simultaneously increases performance relative to learning the tasks separately, regardless of the differences in pre-trained encoders.

Results II - Cause Extraction Task

Evaluation Metrics

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Conclusion

References

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