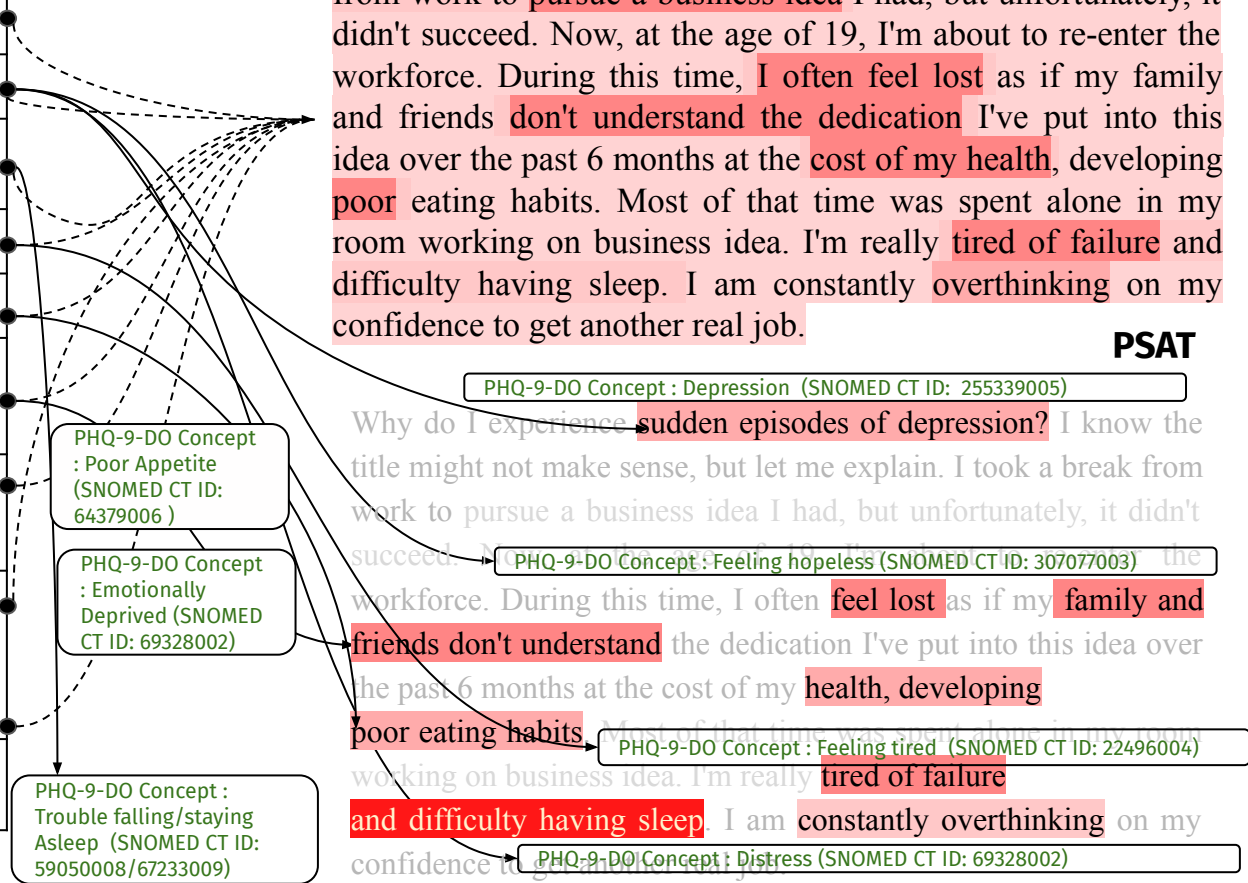


Supplementary Material for PSAT

Anonymous

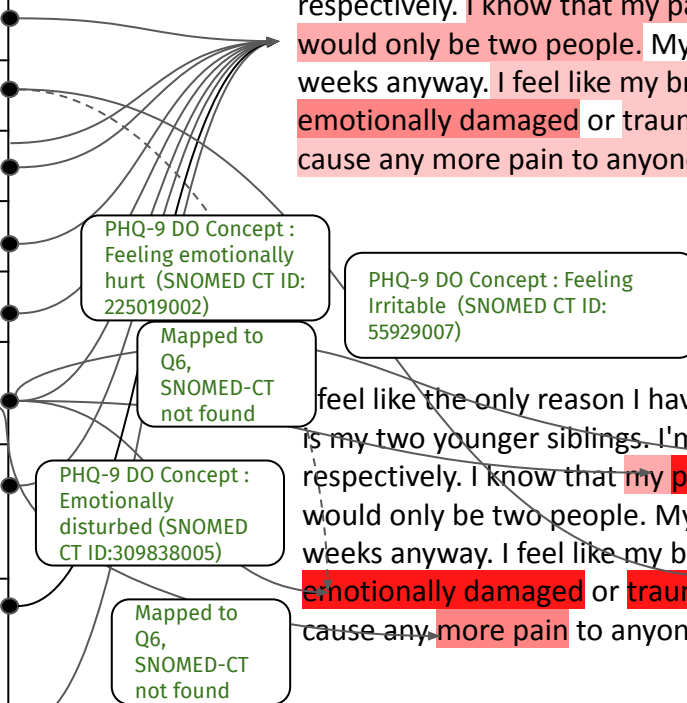
Example : CLEF eRISK

PHQ-9	Over the last 2 weeks, how often have you been bothered by the following problems?
1	Little interest or pleasure in doing things
2	Feeling down, depressed, or hopeless
3	Trouble falling asleep or sleeping too much
4	Feeling tired or having little energy
5	Poor appetite or overeating
6	Feeling bad about yourself- or that you are a failure or have let yourself or family down
7	Trouble concentrating on things, such as reading the newspaper or watching television
8	Moving or speaking so slowly that other people could have noticed Or the opposite-being so fidgety or restless that you have been moving around a lot more than usual
9	Thoughts that you would be better off dead, or of hurting yourself in some way



Example : CAMS

PHQ-9	Over the last 2 weeks, how often have you been bothered by the following problems?
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2	Feeling down, depressed, or hopeless
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ClinicalT5

I feel like the only reason I haven't already found the courage to do it is my two younger siblings. I'm sixteen, and they are twelve and ten respectively. I know that my parents would be heartbroken, but that would only be two people. My "friends" would be over it in a few weeks anyway. I feel like my brother and sister would be too emotionally damaged or traumatised if I did it, and I don't want to cause any more pain to anyone anymore.

PSAT

feel like the only reason I haven't already found the courage to do it is my two younger siblings. I'm sixteen, and they are twelve and ten respectively. I know that my parents would be heartbroken, but that would only be two people. My "friends" would be over it in a few weeks anyway. I feel like my brother and sister would be too emotionally damaged or traumatised if I did it, and I don't want to cause any more pain to anyone anymore.

Ground truth Explanation: emotionally damaged, traumatised

CAMS distinguishes itself from CLEF e-Risk by offering ground truth explanations. In the subsequent examples, we verify whether the highlighted words/phrases in ClinicalT5 and PSAT coincide with the ground truth explanations provided by CAMS.

Post

I feel like the only reason I haven't already found the courage to do it is my two younger siblings. I'm sixteen, and they are twelve and ten respectively. I know that my parents would be heartbroken, but that would only be two people. My "friends" would be over it in a few weeks anyway. I feel like my brother and sister would be too emotionally damaged or traumatised if I did it, and I don't want to cause any more pain to anyone anymore.

Generating explanations by prompting GPT 3.5 using ClinicalT5 extracted phrases.

I'm really sorry to hear that you're feeling this way, suicidal thoughts are serious, and it's crucial. Remember, your family care about you and want to help you through difficult times.

Generating explanations by prompting GPT 3.5 using PSAT extracted phrases.

The text describes the speaker carrying a heavy burden feeling that family is feeling irritable, emotionally disturbed and hurt. The speaker's action may cause more harm.

A Scenario where PSAT underperforms ClinicalT5 attention, but because of focused attention, the generated explanations were comparable.

Example : CAMS

PHQ-9	Over the last 2 weeks, how often have you been bothered by the following problems?
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7	Trouble concentrating on things, such as reading the newspaper or watching television
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9	Thoughts that you would be better off dead, or of hurting yourself in some way

Ground truth Explanation: take my own life, how selfish I am and how could I do this to my family, what could I have done to help,

ClinicalT5

If I take my own life, it's all going to be about how selfish I am and how could I do this to my family and what could I have done to help. But if a drunk driver takes me out, then no more guilt. All of a sudden I was taken too soon and how tragic my death is.

PHQ-9 DO Concept :
Guilty Ideas
(SNOMED CT
ID:162321006)

Mapped to
Q6,
SNOMED-CT
not found

PHQ-9 DO Concept :
Feeling helpless
(SNOMED CT ID:
333000005)

PHQ-9 DO Concept :
suicide ideation
(SNOMED CT ID:
304712004)

PHQ-9 DO Concept : Immediately
dangerous to life and health
condition (SNOMED CT ID:
409544000)

These two phrases results in two snomed-ct concepts from PHQ-9-DO

PSAT

If I take my own life, it's all going to be about how selfish I am and how could I do this to my family and what could I have done to help. But if a drunk driver takes me out, then no more guilt. All of a sudden I was taken too soon and how tragic my death is.

Post

If I take my own life, it's all going to be about how selfish I am and how could I do this to my family and what could I have done to help. But if a drunk driver takes me out, then no more guilt. All of a sudden I was taken too soon and how tragic my death is.

Generating explanations by prompting GPT 3.5 using ClinicalT5 extracted phrases.

The text talks about person who is willing to take life because of selfish behavior. The person feel bad about their family and feel helpless. The person is guilty and want to be taken away by drunk driver. This would be sudden and tragic death.

Generating explanations by prompting GPT 3.5 using PSAT extracted phrases.

The text shows the person is having suicidal ideation and feeling helpless to let the family down. The person has guilty ideas for having the thought on suicidality, which shows the immediate danger to life and the presence of a health condition.

Example : PRIMATE

PHQ-9	Over the last 2 weeks, how often have you been bothered by the following problems?	Ground Truth Answerability
1	Little interest or pleasure in doing things	Yes
2	Feeling down, depressed, or hopeless	Yes
3	Trouble falling asleep or sleeping too much	No
4	Feeling tired or having little energy	Yes
5	Poor appetite or overeating	No
6	Feeling bad about yourself- or that you are a failure or have let yourself or family down	Yes
7	Trouble concentrating on things, such as reading the newspaper or watching television	No
8	Moving or speaking so slowly that other people could have noticed Or the opposite-being so fidgety or restless that you have been moving around a lot more than usual	No
9	Thoughts that you would be better off dead, or of hurting yourself in some way	No

ClinicalT5

Admitting no bond with toddler and wondering if its justified or b/c Im just a terrible person.I know I love her but dont feel overwhelmed in love with 3 year old. In fact, i feel awkward hugging,I dont like her all over me and KNOW this should be so much deeper of a connection. My factors involved include me losing my first child, a son at 5 mos from a rare genetic condition. I also suffer from bipolar depression and constantly struggling. Is my depression and hatred for myself the reason Im not fully loving her..b/c i dont love ME? Is it b/c of the loss of my son and maybe deep down Im afraid and protecting myself. It could be Im just a cold jerk. Help only.

PSAT

Admitting no bond with toddler and wondering if its justified or b/c Im just a terrible person.I know I love her but dont feel overwhelmed in love with 3 year old. In fact, i feel awkward hugging,I dont like her all over me and KNOW this should be so much deeper of a connection. My factors involved include me losing my first child, a son at 5 mos from a rare genetic condition. I also suffer from bipolar depression and constantly struggling. Is my depression and hatred for myself the reason Im not fully loving her..b/c i dont love ME? Is it b/c of the loss of my son and maybe deep down Im afraid and protecting myself. It could be Im just a cold jerk. Help only.

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Generating explanations by prompting GPT 3.5 using ClinicalT5 extracted phrases.

This text is expressing a lack of connection with a toddler and questioning if it is due to depression, the loss of a son, fear of loss, or simply a lack of love for oneself. The text maps to concepts such as bond, year, son, feel, feel year old, love, toddler, fear, hug, gene, actor, net, child, depression, bipolar, reason, hatred, loss, and cold, which all relate to the speaker's struggle to feel a deeper connection with the toddler.

Generating explanations by prompting GPT 3.5 using PSAT extracted phrases.

The text maps to the concepts by examining how the main character feels and how their past experiences are affecting their current relationships. The bonds they have with their toddler, the loss of life, their son, their depression and bipolar disorder, and the fear and hatred they feel towards themselves all contribute to their difficulty in loving their toddler. The text also references the elderly year, son, feeling, and hugging, suggesting a lack of connection and understanding of love.

Answering PHQ-9 Questions using ClinicalT5's attention words and GPT 3.5

1. Yes (expressed by "dont feel overwhelmed in love with 3-year-old" and lack of deeper connection with the toddler)
2. Yes (mentioned "constantly struggling" and "hatred for myself")
3. Not explicitly mentioned in the text.
4. Not explicitly mentioned in the text.
5. Not explicitly mentioned in the text.
6. Yes (mentioned "hatred for myself")
7. Not explicitly mentioned in the text.
8. Not explicitly mentioned in the text, but the presence of bipolar depression suggests that fluctuations in energy and activity levels may occur.
9. Not explicitly mentioned in the text, but it is important to be aware that the person's struggles with depression and bipolar disorder could potentially lead to such thoughts.

Answering PHQ-9 Questions using PSAT's attention words and GPT 3.5

1. Yes - Little interest or pleasure in doing things. (The person mentions not feeling overwhelmed in love with the toddler and feeling awkward hugging, indicating a lack of interest or pleasure in typical parental activities.)
2. Yes - Feeling down, depressed, or hopeless. (The person mentions suffering from bipolar depression and constantly struggling, indicating feelings of depression.)
3. Yes - Trouble falling asleep or sleeping too much. (Not explicitly mentioned in the text, but the person's struggles with depression could imply sleep disturbances.)
4. Yes - Feeling tired or having little energy. (Not explicitly mentioned in the text, but depression can lead to feelings of fatigue and low energy.)
5. Yes - Poor appetite or overeating. (Not explicitly mentioned in the text, but depression can affect appetite and eating habits.)
6. Yes - Feeling bad about yourself - or that you are a failure or have let yourself or family down. (The person mentions hatred for themselves and wonders if it's the reason they are not fully loving their toddler.)
7. Yes - Trouble concentrating on things, such as reading the newspaper or watching television. (Not explicitly mentioned in the text, but depression can impact concentration and focus.)
8. Yes - Moving or speaking so slowly that other people could have noticed, or the opposite-being so fidgety or restless that you have been moving around a lot more than usual. (Not explicitly mentioned in the text, but the person's bipolar depression could involve such symptoms.)
9. No - Thoughts that you would be better off dead, or of hurting yourself in some way. (Not mentioned in the text.)