

, @f- ^<Cs S^] - z ~q- Y X- ^L ~- LC d qb <C S s S^ L

? q? SzCsP V - ^bLS >d qbHx b^sz- ^zS^ a q^s- ^

r-qp%R^sz-zC Hq d Cbe YQC^zq@, R; C^zq Hq y q ^sY zS^ r z-@S
@W^bLS 2 s-qp%bo-i-W^i b q s ^2 s-qp%bo-i-W



a ^LbS^L dqbLC<z s

„ SzP 4bq zS^s k b\ qSG-qP C s^ -< @ \ S
- ^@S^ -szq%o YS^=

CBf-Y-zS^L [-<P^S^C y q ^sY zS^ k ~- YS^%
Q -zb\ -zS^ d b z C @S^L bH [-<P^S^C y q ^sY zS^
C R^C^zS^%o LLq C s s f C w a ' C^s f C X- ^L--LC
Q <qb^%o B f e- ^sS^ S^ r <S^zS^ <? b\ -S^
Q Xd -ee Y @ z b z P C X C L -Y? b\ -S^
Q r -q- s\ - ^@O -\ b-q } ^@Cqsz- ^@S^L
Q bL^S^f C %o S @ X- ^L--LC } ^@Cqz- ^@S^L

; bYY- 4bq-z S^s

ASTON UNIVERSITY
JUST: Access

a -q @f C q C] Xd S^z C q s z s P -f C Y @ z b C f -S^S^L <b Q
Y 4bq zS^s .. SzP qSG-qP C s .. b q @ . S @ F

] Xd ; - H

y P C \ b s z e b e ~ Y q < - H S^
K ~ S @ H b q @ F „ C q b - s z b - q 4 G ^ s
b ^ < C - .. C O M H b q - ^ P b - q .. S P \ - ^ % o
q S G - q P C s k b \ 4 b z P] X d - ^ @ ^ b ^ O
] X d s e - < C s i „ C s z - q r @ - s - q G @
S^L L q b - e 4 - z C f b y f C @ S^z b s b \ C O
z P S^L \ b q \ R^ b^C % q .. C - ^ @ C z b b W - @ C e Y G - q^O
S^L \ b @ Y C @ S - s s C @ S^z C q s z S^L e q l q \ \ S^L Y S O
4 q q S - ^ @ Y b b W @ - z] X d - @ f - ^ < C C^z s z P q - L P
- < q S - Y C ^ s t - Y S^ z P C < - H i
, q % - S^z C q s z C @ S^L b S^S^L - s m r < - ^ z P C k p
< b @ C z b W b ... \ b q C F

a eC^ , <<C S s

„ C - q C < b \ \ s z C @ z b b e C^Q << C s q S G - q P S^ - Y S^ ^ < C
.. SzP z P C } V p R b e C^Q << C s e b Y S^ % o a ~ q @ - z - s C z s >
Y S^ C d X a ? > O S B p > r { ? - q C - Y e ~ 4 Y S - Y % o f - S O
- 4 Y C - Y b^L .. SzP z P C < b @ C - ^ @ z P C \ b @ C S L C^ C q
- z C @ k b \ b - q q S G - q P i ; P C W b - z b - q . - ^ @ F

X- ^L ~- LC } ^@Cqsz- ^@S^L

] - z - q Y X - ^L ~- LC d q b < C s s^L f] X d g S \ b f S^L - z
- H s z e - < C X - ^L ~- LC } ^@Cqsz- ^@S^L S s -
< b q C s - 4 Q q C - b H] X d > .. P S P P - s s C C^ z q \ C^O
@ b - s - @ f - ^ < C s S^C z P C - @ f C^z b H e q r q S^O
H b - ^ @ z S^ \ b @ C s i

r - q p % S Y C @ S^L q S G - q P C b q z s b^ \ - ^ % d b p^z s
S^ z P S @ S^z S^ i a - q S^z C q @ S - S e Y S^ - q % o - e Q
e q b - < P - @ @ q C s s C s] X } e q b 4 Y C \ s S^ \ - Y Q
z S e Y C @ b \ - S^s s - P - s s b - S^ Y Q L - Y - ^ @ s - S^O
z S < Q : i

} S^L s z - z C O H Q P C Q q z] X } > .. C - q C ^ - \ S^L
C^z S S S q : - ^ @ C f e - ^ @ S^L - < q b % o s Q : .. P S C S z S O
\ - z S^L z P C i ~- Y S^% b H - < P^S^C z q ^ s Y z S^ q : i y P - z
@ @ ^ z \ - V C s C^s C m p C - @ b - q e - e C q s F

r ~qqC%q] - z ~q- Y X- ^L ~- LC d qb <C S s S^L

P z z e s = w v L S z P - 4 i < b \ v s - q p C % q Y e P z z e s = w v P - L L S ^ L H < C i < b v s - q p C % q Y e

a z P C q [C \ 4 C q s

? q & Y S^ @ b ; - q b > d q b H] S P - ^ z P r - s z q % o ^ @
d q b H O C C^ y q P - q^C
? q X C b ^ - q b S S S > - ^ @ ? q O - @ C Y r - - @ ^ % o
r P C^4 S^ k S^ >, q P - P - ^ - r S^ @ P - U ^ > r b - q 4 P
? C b L P - q C >, S P b q , L - q . - Y b d - q \ ; P b - @ P - q % o
? S^ % o ^ W y S . - q S] - < S] - " s >, W s P p - ... z > - ^ @
T b q @ ^ d - S^z C q

p C s G - q < P , @f- ^<C \ C^z s

„ C q C - s C @ z P C \ b s z C f z C^s f C - < q b^%o
S e C^z S^ < - z S^ - ^ @ C f e - ^ s S^ @ - z - s C z S^
z P C s - S^z S^ < @ b \ - S^ Q : i } S^L e q r q S^O Y ^ O
L - - L C \ b @ C s .. C - < P S^f C r b y , e C H b q ^ - < C b^
z P C z - s W „ C - Y b q C - s C @ z P C \ b s z < b \ e q C O
P C^s f C O S^ @ S] - \ C @ B ^ z S^ % p C < b L ^ S z S^ ^
@ - z - s C z .. S P z P C ; G R X y q : X - 4 i

a ^L b S^L S^f C z S^L - z S^s q e b q r b y , k B s < b q C s
~ S^L b - q ^ b f C Y \ ~ Y S^z - s W Y C - q^S^L 4 - s C @
- e e q b - < P i

„ C - q C < - q z S^L k B @ - z - H b q s S^ ^ C .. Y ^ Q
L - - L C e - S p S^f C z S^L z P C [y e C H b q ^ - < C
H b \ B ^ L Y S^ z b R^ @ S^ X - ^L ~- L C s i X - s z % q .. C
< b q d - ^ S C @ z P C k B - ^ @ , d B s P - q @ z - s W .. P S C
< b^z q S^ - z S^L z .. b @ - z - s C z s i , @ @ S^S^ - Y % o . C
- q C < q z S^L , d B @ - z - H b q z .. b > - ^ @ [k [C f - Y - z S^ ^ @ - z - H b q b^C Y ^L ~- L C e - S j

[~Yz S b @ Y S^ %o

Rohit: Well, no offense, but I didn't go to art school.
Rohit: I have a PhD in astrophysics
Melvin: Oh, great, that'll be easier for you to look up in the stars without a roof over your head.

Bianca: Speaking of George,
Bianca: how's single life treating you?
Alice: Fine, I guess. I've been focusing on me.

; bL^S^f C ? - z - - s -] C .. [b @ - Y S^ %o

Textual Utterance (Raw Audio) -> Preprocessing -> Gaze-based Features, Transformer-based Text Features, Low-level Audio Features, ResNet-152 Video Features -> Collaborative Gating Module -> Attention based Multi-modal Fusion -> Fused Feature Vectors -> FFNN-based Prediction Module -> Output Label (Sarcastic / Non-Sarcastic)

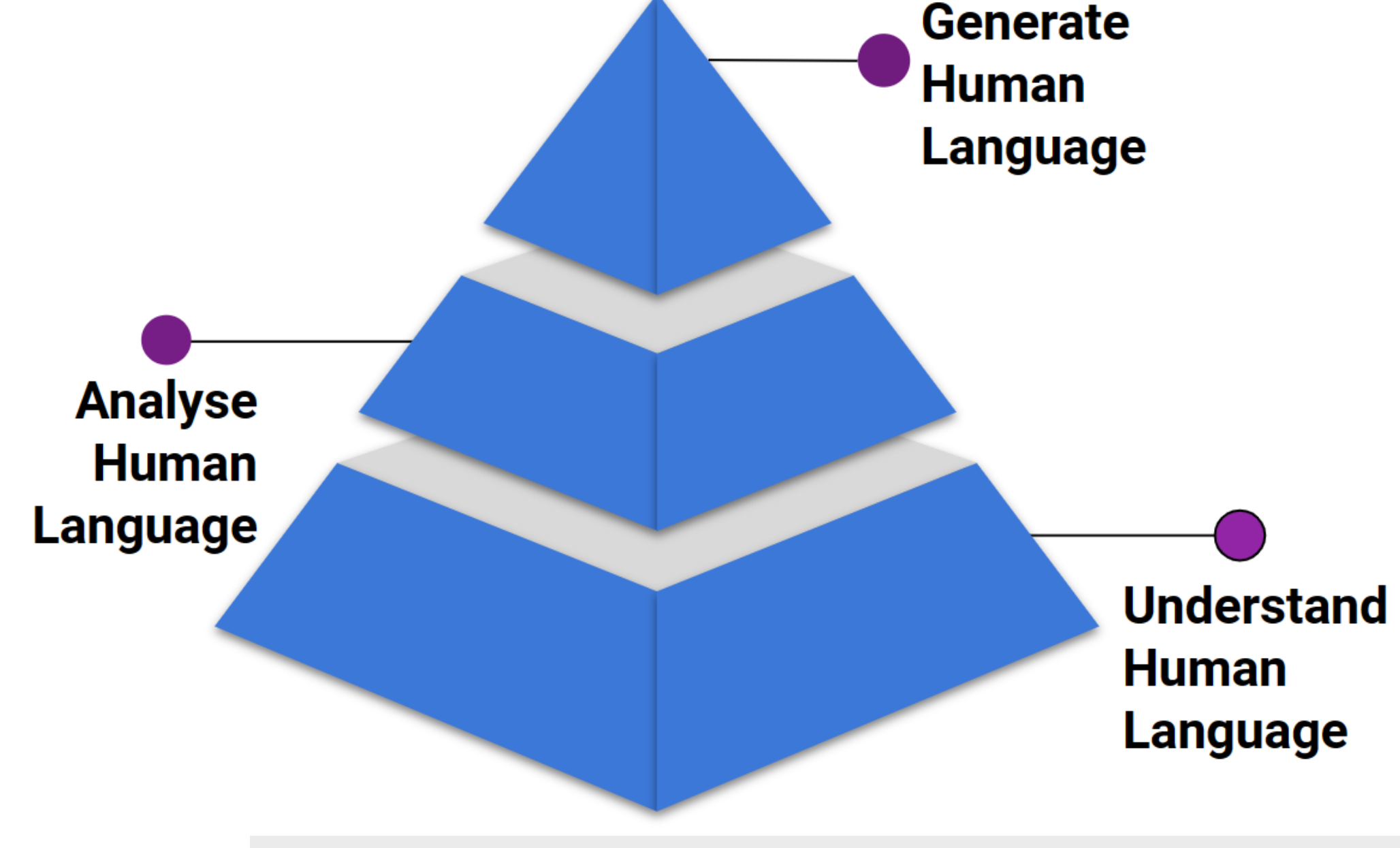
] b f C Y , e e q b - < P w [~ Y S^ b @ Y r - q C - s \

r S^ ^ S^S- ^z d ~4Y S- z S^s

Q: X S S S > O r - - @ ^ % d r P - q - > ? V - ^ b L S > - ^ @ ; a q^s - ^ i
d X a ? = , ^ - 4 4 q f s z S^ @ z C - z S^ @ z - s C z H b q s - S^z S^ <
@ b < - \ C^z s i
R^ d q b - C O @ S^L s b H z P C c { z P X p B ; > T - ^ C | C f i i

q: p [~ q P % d 3 P - z z - P - q C C p r P - q^L - z > T V P - z q s
? V - ^ b L S > - ^ @ d 3 P - z z - P - q % i
O S B p = , Y q C O S^ @ S^ - \ C @ C^z S^ % q C b L^S S^ @ z - s C z i
R^ d q b - C O @ S^L s b H z P C c { z P X p B ; > T - ^ C | C f i i

q: ? V - ^ b L S > [G b \ S P C f - > y p - ^ - S^L P C > G 3 Y S^ >
; a q^s - ^ > - ^ @ X r e C s i
d - S P S^L z P C q P z 4 - z b^s = , @ C q s - q Y C f - Y - z S^ b H
I ~- Y S^ % z S^ - z S^ i
R^ d q b - C O @ S^L s b H z P C v z P „ [y >] b f C \ 4 C q | C f i i



„ - ^z z b W b... \ b q C m

P z z e s = w v S e z C s P W ^ b L S - i L S z P - 4 i S b
P z z e s = w v S ^ C Y i b q l i ~ W

