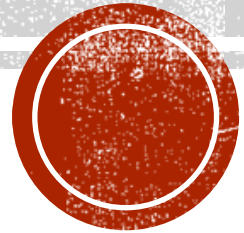
NO MISSING WITH YOUR CAPTION



Shweta

Hardik

Anahita

Ammar

MEET JACOB WHO IS ALWAYS WITH HIS CAMERA AND LIKES TO CLICK PICTURES

JACOB: I CAN'T GET OVER FROM MY RECENT TRIP TO GREENLAND. I HAVE SO MANY BEAUTIFUL PICTURES. BUT WHAT A PITY, MY FRIENDS MAY NOT BE ABLE TO SEE THESE PICTURES EVER

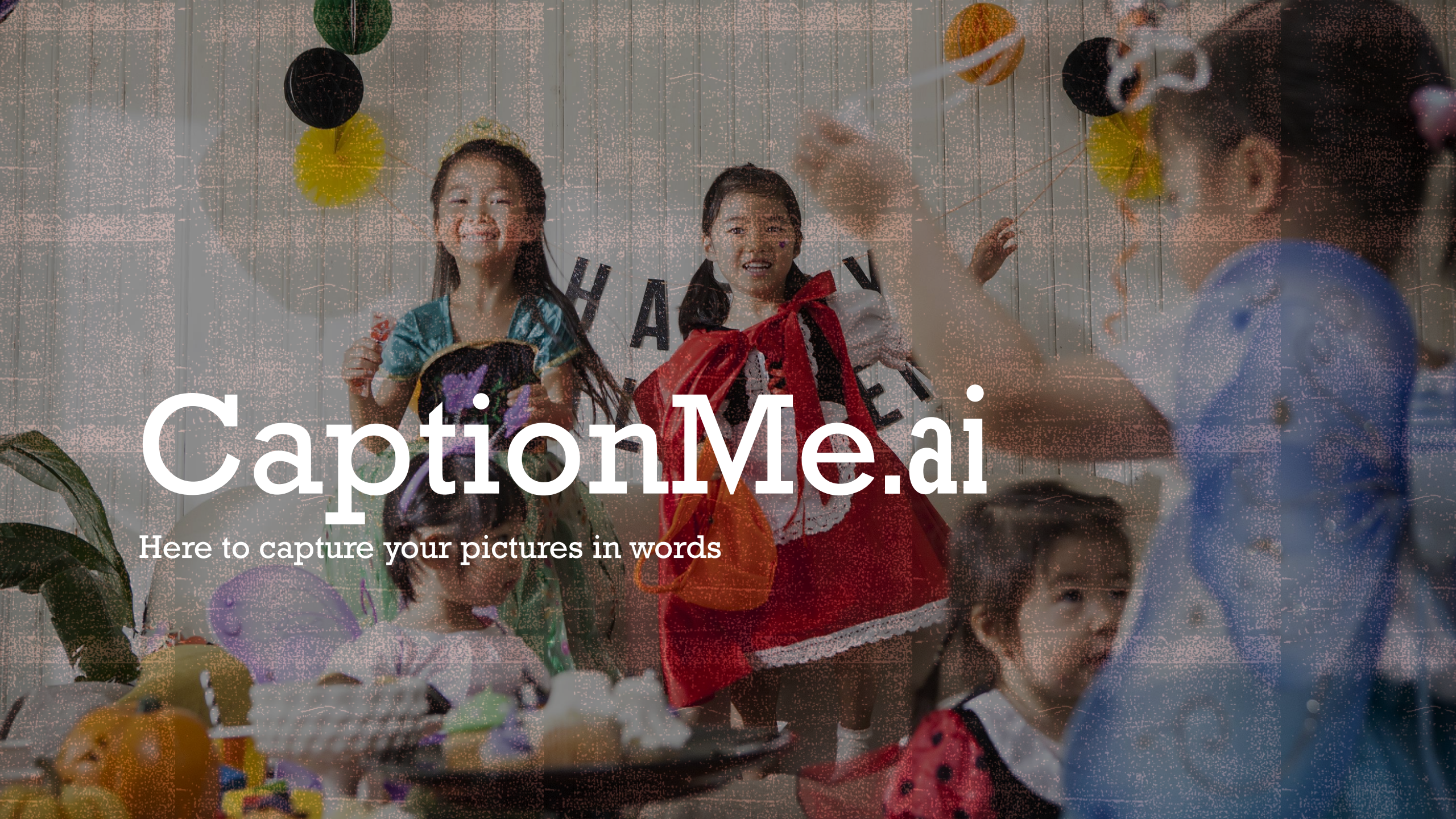
WHY DO YOU THINK HE CAN'T SHOW PICTURES IN THIS ERA OF INSTAGRAM AND SOCIAL MEDIA WHEN IT IS SO EASY TO SHARE?

HARDLUCK, JOCOB IS ONLY GOOD AT CLICKING PICTURES NOT CAPTIONING THEM

We have all been in Jacob's shoes at some point of time in our lives.

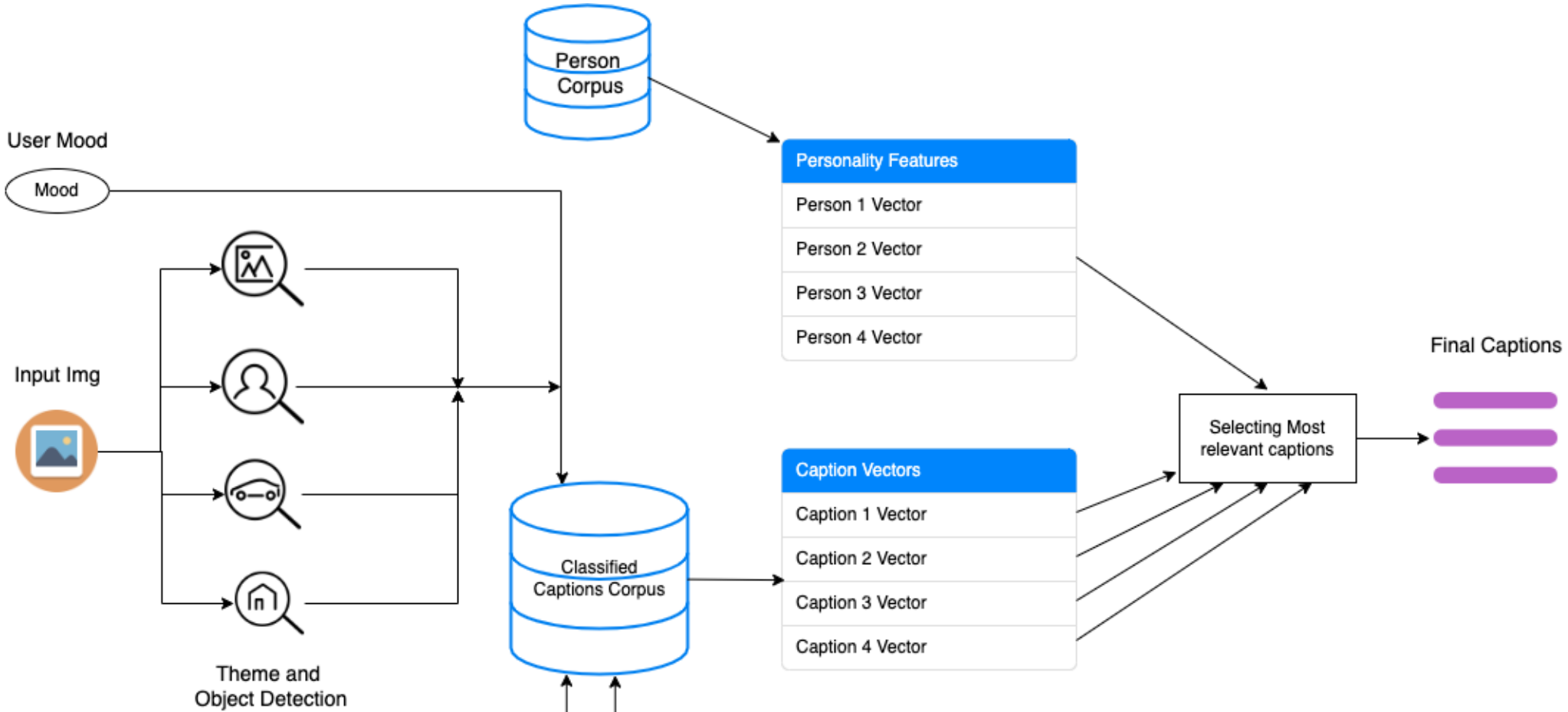
JACOB THINKS CAPTION REALLY ENHANCES AND DESCRIBE THE GOOD REASON BEHIND THE PICTURES. A DULL PICTURE WITH SOME MEANINGFUL CAPTION CAN INFLUENCE AND WIN MILLION HEARTS

THE TEAM **ANOMALY** BRINGS JACOB AND SEVERAL OTHERS SOLUTION TO THIS PROBLEM


CaptionMe.ai
Here to capture your pictures in words

CAPTIONME.AI

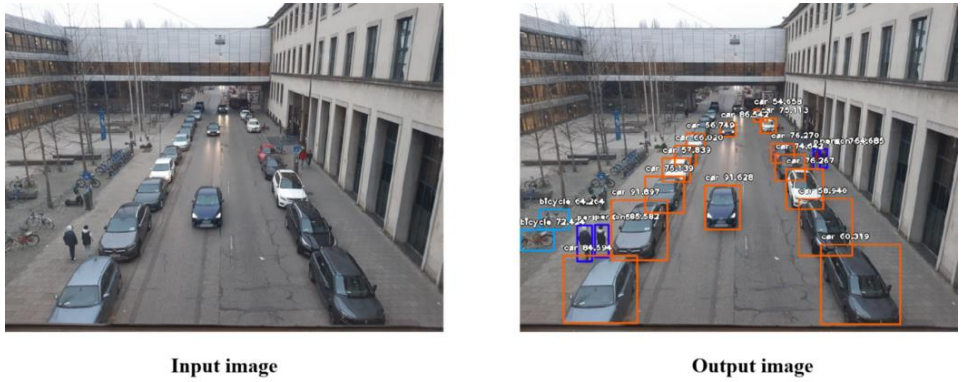
Pictures → Image classification → Persona Creation → Sentiment Analysis → Caption suggestion



Text Corpus stored in hierarchical way after sentiment analysis

IMAGE DETECTION

- Identifies broad classes in which the image lies : Beach, Sun, Tree, Food, Night
- Uses Image Classification and Object Detection using Tensorflow and Keras
- Models Implemented : Custom CNN, ImageAI
- Created custom dataset and trained model and achieved 97% accuracy for test images.



Input image

Output image

Object detection

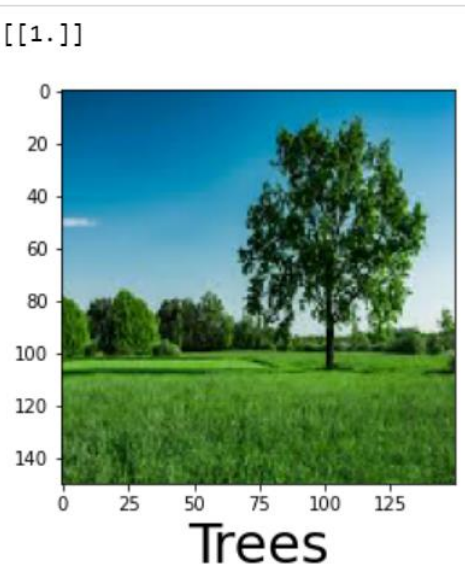


Image Classification

PERSONA CREATION AND SENTIMENT ANALYSIS

- We created the feature vectors for users for their emotional personas by analysing the tweets and captions of their Instagram photos
- Filtered the captions according to themes and then ran again a persona classification on each caption
- Compared both to get the closest matching captions which the user might like.


```
{
        "Ellen": [0.52589768,0.03400064,0.19542421,0.11375914,0.13091833],
        "BarackObama":[0.2483409,0.03981837,0.19524974,0.16241705,0.35417394],
        "Rihanna": [0.59228363,0.03962461,0.16266945,0.10809871,0.0973236],
        "Cristiano": [0.61587555,0.02473075,0.13960909,0.10131631,0.11846829],
        "JustinBieber": [0.748,0.0185,0.1045,0.088,0.041]
}
```


Persona scores

RESULTS

```
<keras.engine.sequential.Sequential object at 0x7fabeaafaf70>
image.jpeg
['Night', 'Sunkaset']
[[1.]]
<keras.engine.sequential.Sequential object at 0x7fac075ffbb0>
image.jpeg
['Ocean', 'Trees']
[[1.]]
Good news!!! We are done analysing your image.
How about you tell us how you feel about the image :
Feel free to enter a mood from the below list :
 Happy
 Angry
 Sad
 Surprise
 Fear
Happy
We have filtered a total of 188 number of captions as per your image and the mood.
Who would you like to be today :
1. Ellen
2. BarackObama
3. Rihanna
4. Cristiano
5. JustinBieber
Rihanna
Now personalizing the top 5 captions that are best for you . . .
Voila !!!. Your personalized caption suggestions are ready
Drum Rolls . . .
We need the storms, the overcast days to help us appreciate the sunny days
A cloudy day or a little sunshine has as great an influence on many constitutions as the most recent blessings or misfortunes
If it was sunny every day then we would start taking it for granted
Sunny days give us happiness
I was made for sunny days
```

Image detection / Classification output

User input to choose the mode

User input to choose the persona

Caption Suggestions

FUTURE SCOPE

- Web Scrape captions from users to train a AI model which will learn as and when new captions are put up or new social activity is done by the user (with due permissions)
- Robust Object Detection
- Personality traits should include characteristics as Liberal, Inspiring , Goal-driven etc. which can be used to make user profiles and has a variety of applications (Advertisement , recommender etc.)
- Video Captioning
- Social media Plugin

FIN.