Blur Image Detection

Minutes of Meeting

Date: 10/08/2022

Agenda of Meeting: Introduction of intern and Kofax mobile team

Key-points Discussed:

1) Project done by Intern in the previous semester or by their own
2) Skills required for working on Blur detection projects.
3) Flow of project and What company required.

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Study about Blur detection using different technical papers,youtube or google.	Everyone	17/08/2022
2)	Find different algorithm on blur detection with their accuracy	Everyone	17/08/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern

SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

Chembur, Mumbai - 400 088

UG Program in Computer Engineering

Date: 17/08/2022

Agenda of Meeting: Discussion about blur detection and its algorithm .

Key-points Discussed:

1) What is blur detection ,its type and how can we detect it.
2) On what factor blur detection depends and how it changes according to image.
3) Survey on different algorithms to detect blur detection.
4) Demonstrated working of the Laplacian algorithm.

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Detailed study on Blur detection using different technical papers,youtube or google.	Satyam , Aryan	24/08/2022
2)	Find alternative algorithms on blur detection .	Moiz , Yatish	24/08/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Shahzia Sayyad	Internal Mentor
6	Satyam Shah	Intern
7	Moiz Rajkotwala	Intern
8	Yatish Pant	Intern
9	Aryan Nandu	Intern

Date: 24/08/2022

Agenda of Meeting: Discussion on algorithm implementation and their accuracy.

Key-points Discussed:

1) Working of algorithms like Fast fourier transform (FFT) and Haar Wavelet.

2) What method is used by the algorithm to detect blur detection.

3) We discuss the method and approaches to increase the accuracy for the above mention algorithm

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Find more algorithms for implementation for blur detection which has high accuracy and comparison between them in graph form.	Satyam , Aryan	14/09/2022
2)	Create image dataset for model for blur detection	Everyone	14/09/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern

SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE
Chembur, Mumbai - 400 088
UG Program in Computer Engineering

Date: 14/09/2022

Agenda of Meeting: Discussion on implementation of algorithm and image dataset created.

Key-points Discussed:

1) Give a comparative analysis of the above-mentioned algorithm in the graph form.

2) Understand the data requirement of the problem.

3) Create Image dataset and gather data from the internet.

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Examine the algorithm's accuracy when varying the blur factor.	Moiz ,Yatish	21/09/2022
2)	Create more image dataset for model.	Everyone	21/09/2022

Attendees:

Sr. No.	Name	Designation
1	Shahzia Sayyad	Internal Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern
9	Shreeshail Devmane	Intern

Date: 21/09/2022

Agenda of Meeting: Discussion on accuracy of algorithm implemented and basic of CNN

Key-points Discussed:

1) Accuracy of different algorithm with different blur factor

2) Does the change of blur factor affect the accuracy.

2) Plan to work on CNN

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Study on CNN and its working	Satyam,Aryan, Shreehail	23/09/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern
9	Shreeshail Devmane	Intern

Date: 23/09/2022

Agenda of Meeting: Discussion on CNN(Theory)

Key-points Discussed:

1) What are the different types of CNN and how does it work.

2) What are CNN's several levels and how do they work.

3) Explaining CNN with examples.

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Study on CNN	Satyam,Aryan, Shreehail	28/09/2022
2)	Find different algorithm or code to implement CNN	Moiz ,Yatish	28/09/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern
9	Shreeshail Devmane	Intern

Date: 28/09/2022

Agenda of Meeting: Discussion on CNN working(code) and dataset

Key-points Discussed:

1) How CNN is Implemented and detail working of CNN

2) Accuracy of CNN compared to normal blur detection algorithm.

3) Basic discussion on RCNN

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Study on CNN and RCNN	Shreehail	21/12/2022
2)	Trained the CNN model to increase accuracy	Moiz,Yatish,Satyam, Aryan	21/12/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Yatish Pant	Intern
8	Aryan Nandu	Intern
9	Shreeshail Devmane	Intern

Date: 21/12/2022

Agenda of Meeting: Discussion on application of model created and tensorflow lite(Mobile)

Key-points Discussed:

1) Planning for the upcoming two months and the workflow.

2) How may model accuracy vary depending on the dataset.

3) How TensorFlow lite functions and how it can assist in turning a model into a mobile application

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Study about working of tensorflow lite and model can converted in tensorflow lite extension	Everyone	28/12/2022
2)	Creating Github Repository and document folder for MOM	Moiz	28/12/2022
2)	Find different ways to improve accuracy using filters,layer etc	Aryan,Shreeshail	28/12/2022

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Durgaprasad Rapireddy	External Mentor
3	Sivasankar Yathirajula	External Mentor
4	Srikanth Vanipenta	External Mentor
5	Satyam Shah	Intern
6	Moiz Rajkotwala	Intern
7	Aryan Nandu	Intern

Date: 28/12/2022

Agenda of Meeting:

Discussion on working of tensorflow lite model and developing app using flutter or java

Key-points Discussed:

1) Working of tensorflow lite and its size.

2) Implementation of the .tflite file for our model for creating mobile applications.

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Creating Flutter app using trained model	Moiz,Yatish,Satyam,	05/01/2023
2)	Find different ways to improve accuracy using filters,layer etc	Shreeshail,Aryan	05/01/2023

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Satyam Shah	Intern
3	Moiz Rajkotwala	Intern
4	Yatish Pant	Intern
5	Aryan Nandu	Intern

Date: 05/012023

Agenda of Meeting:

Discussion on working of tensorflow lite model and flutter application.

Key-points Discussed:

1) Discussion of the Tflite model's accuracy for mobile applications and model accuracy on laptops .

2) Flutter application demonstration and explanation of how it works.

3) Documentation that has to be created, posted to github, and comment in the code for clarity.

4) What are the various ways that the Tflite model's accuracy might be improved?

Plan of Action:

Sr. No.	Task	Owner	Date
1)	Adding comments to code to make it more understandable	Moiz	11/01/2023
2)	Studying and using the Tflite model to improve accuracy	Moiz ,Satyam	11/01/2023
3)	Word document for issues faced during internship and solution of that issues and Minutes of meeting	Satyam,Aryan,Yatish	11/01/2023

Attendees:

Sr. No.	Name	Designation
1	Rajesh Nagwekar	External Mentor
2	Sivasankar Yathirajula	External Mentor
3	Srikanth Vanipenta	External Mentor
4	Satyam Shah	Intern
5	Moiz Rajkotwala	Intern
6	Yatish Pant	Intern
7	Aryan Nandu	Intern