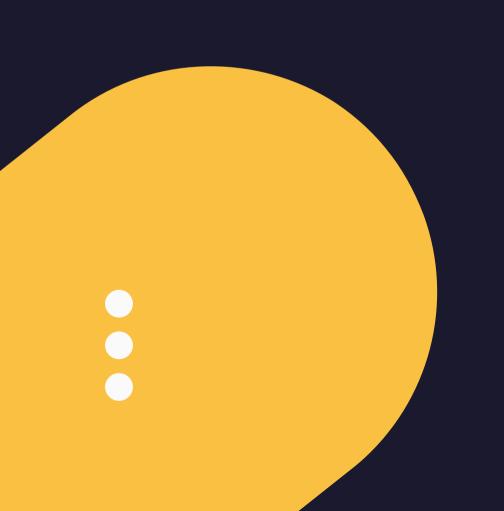


XX

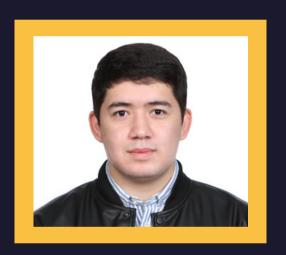
Meet Our Best Team





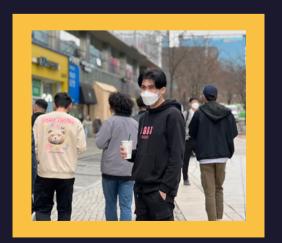
Usmonkul Khakimov

Team leader. Skills - JavaScript, React, HTML, CSS, SQL, Bootstrap, SASS, Python



Shokhrukhbek Primkulov

Software Engineer. Skills - Python, SQL, Java, AWS, GCP, Web Development



Iskandar Gulyamov

Team member. Skills - Java, Python

About Project

The project was deblurring license plate images and recognizing characters of a deblurred license plate image. But, We only focused on the deblurring model rather than recognizing characters of the license plate. A deblurring license plate is very useful when it comes to finding road troublemakers. Although there are cameras everywhere, they could not take clear pictures, and takes motion blurred shots instead because of the high speed of vehicles. This condition makes the deblurring license plate project a more important topic to research, investigate, and use commercially.





Our Goals



Deblurring

The main aim of the project is deblurring motion blurred license plate images.



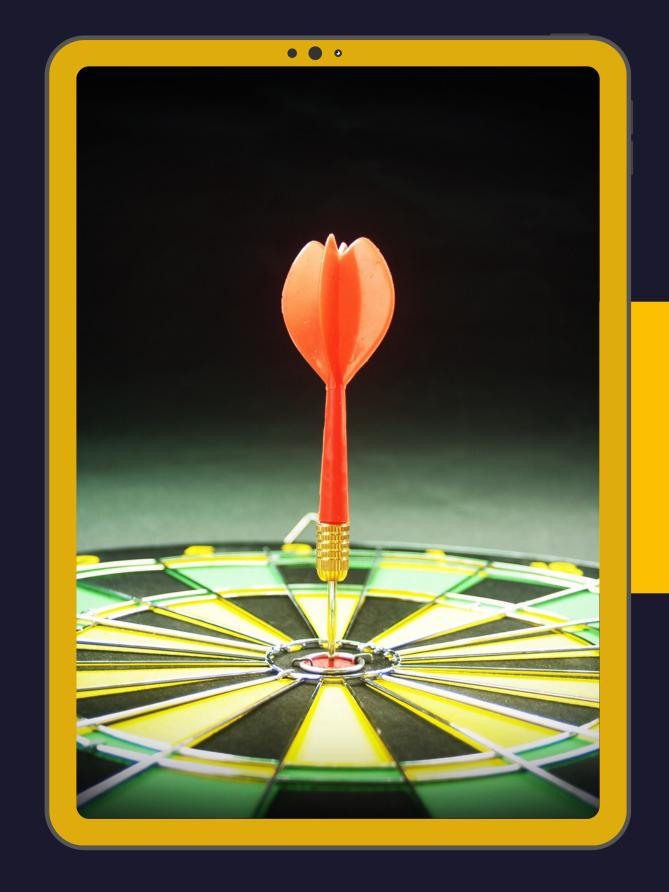
Recognizing

if deblurred images are not clear to recognize with the human eye. Recognizing characters in the plate using a recognition model.



Finding road troublemakers

Using our project, find people who do illegal activities using their cars by finding their license plates.





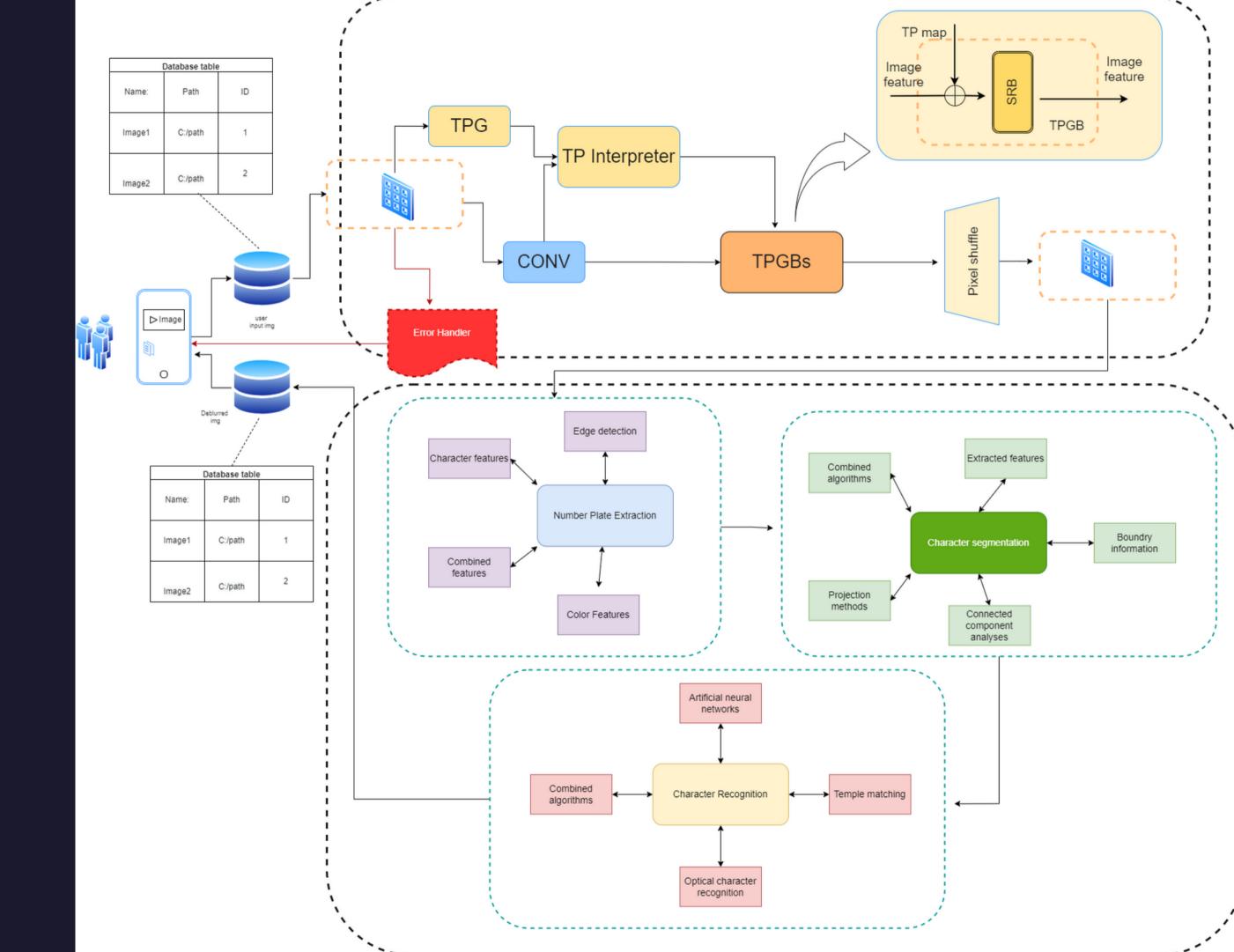
MISSION

Our mission was to experience the real-life project from the first concept step to the last execution step. Moreover, improving our research skills, and using our machine learning and deep learning knowledge to build image deblurring models.

Project schedule

세부내용	<u>수행기간</u> (월)																
	3			4				5				6				비고	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
1. Discussion&Proposal	_	_															
2. Architecture Building																	
3. Make S/W <u>diagramm</u> & <u>H1D</u>					_	ı											
4. Make LLD& Coding								1									
5. Coding& Testing											1	l	ı	ı			
6. Presentation																_	

This was the planned project schedule. But We couldn't follow this schedule properly as there were issues like finding right dataset and using wrong module, algorithm to deblur mosion blured images. So that we needed to go back to each step again and again to understand the new dataset and algorithm.



Problems & Solutions

Dataset

Although we find many free datasets, most of the pictures in the dataset were not license plates but images of nature, etc. We requested more datesets. but they were not what we want but at least we collect more car images than before

02

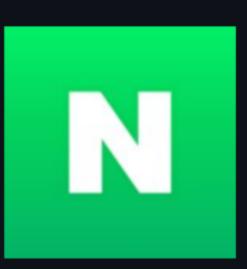
GPU Resource

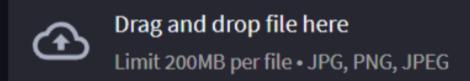
We requested more datesets. but they were not what we want but at least we collect more car images than b

Mrong blur type

We chose the wrong blur type to deblur the image. We were trying to deblur Guassian blur but we needed to deblur motion blur. After getting lots of low result, we figured out that it was because of wrong blur type so that we then changed our algorithm to deblur mosion blured images.

Upload your photo here...





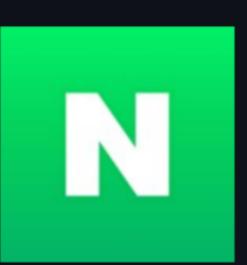
Browse files

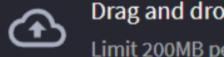
200MB Limit per file

JPG, PNG, JPEG supported

Run on localhost through browser

Upload your photo here...





Drag and drop file here Limit 200MB per file • JPG, PNG, JPEG

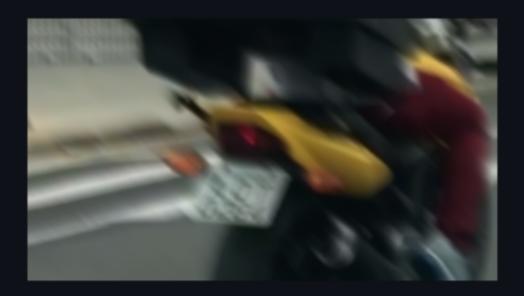
Browse files

Screenshot 2022-06-13 233134.png 184.5KB

×

Before

After



Upload your photo here...





Drag and drop file here
Limit 200MB per file • JPG, PNG, JPEG

Browse files

Screenshot 2022-06-13 233134.png 184.5KB

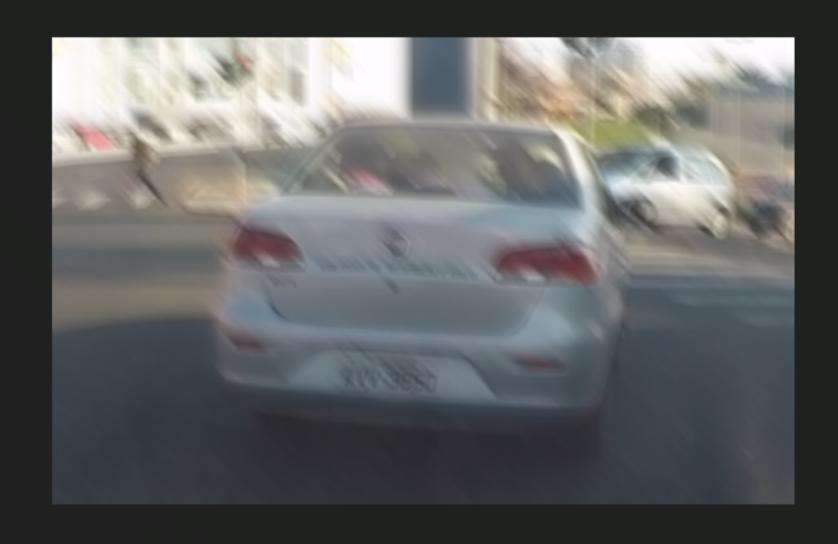
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Before



After



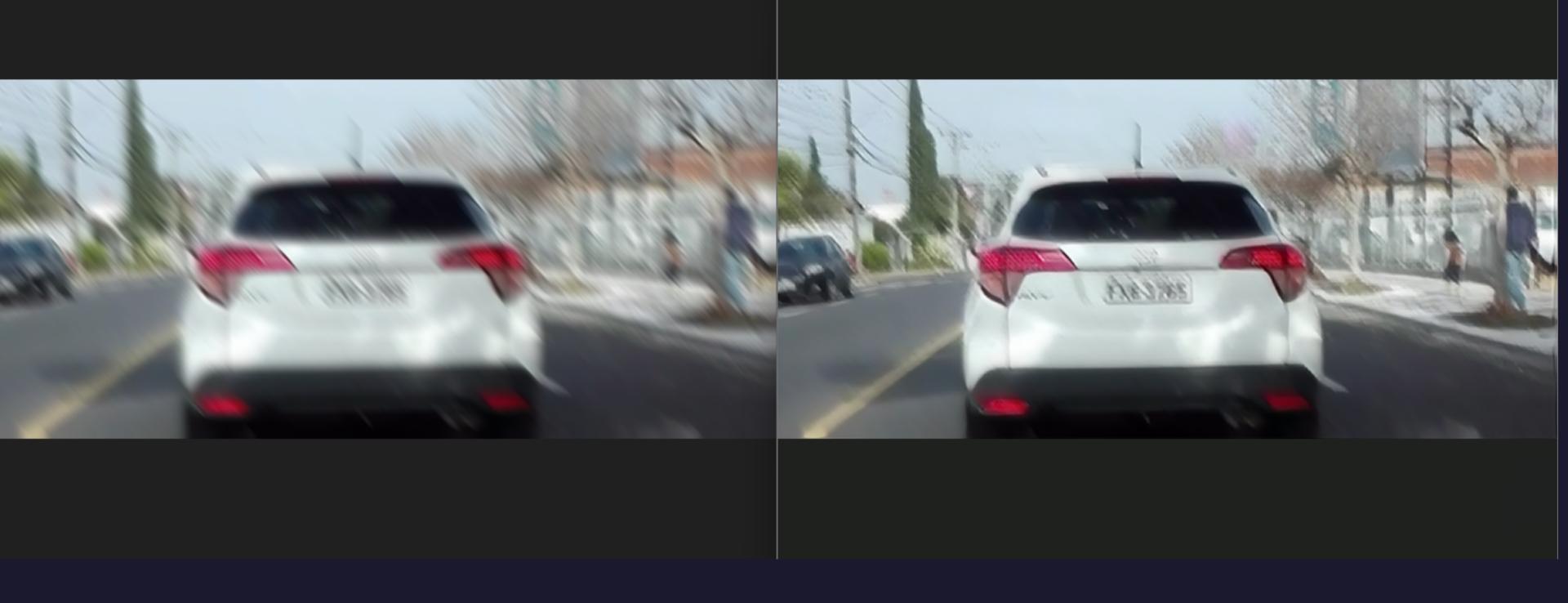




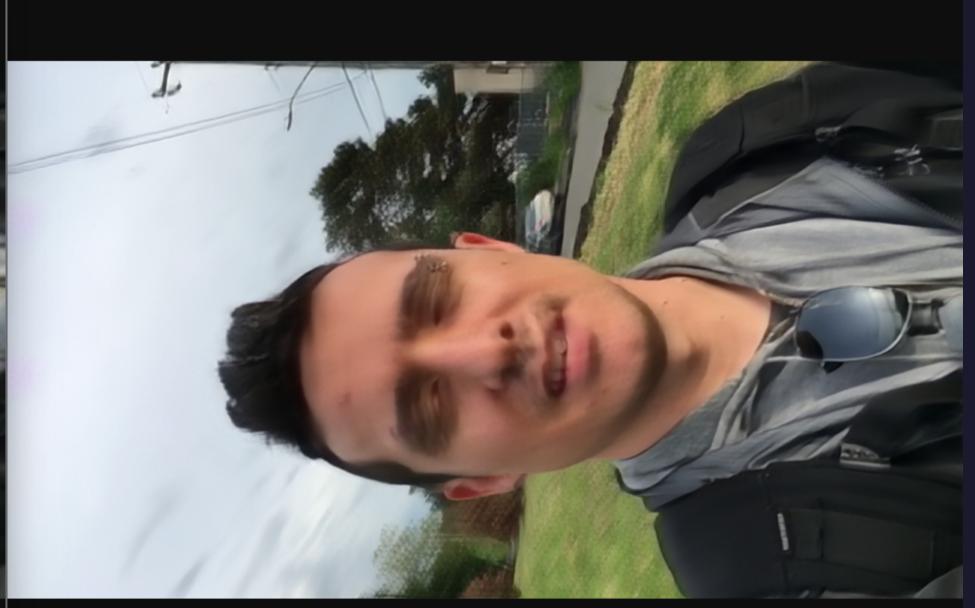


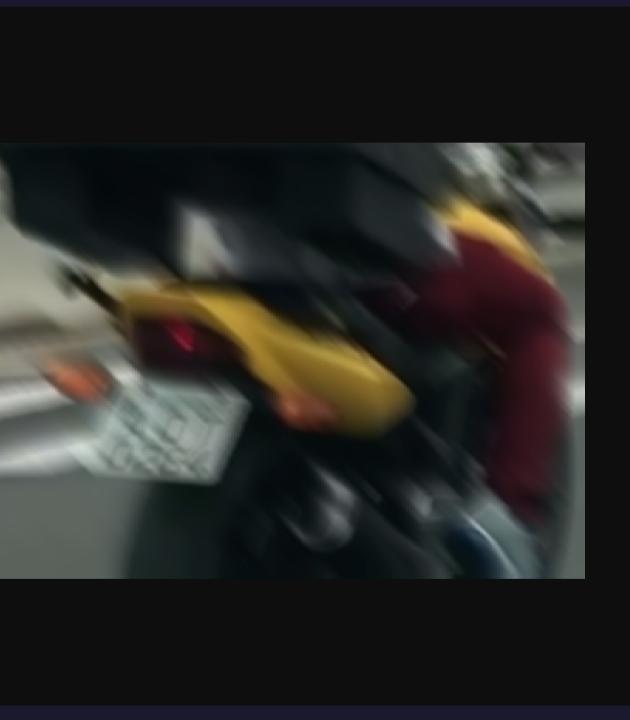


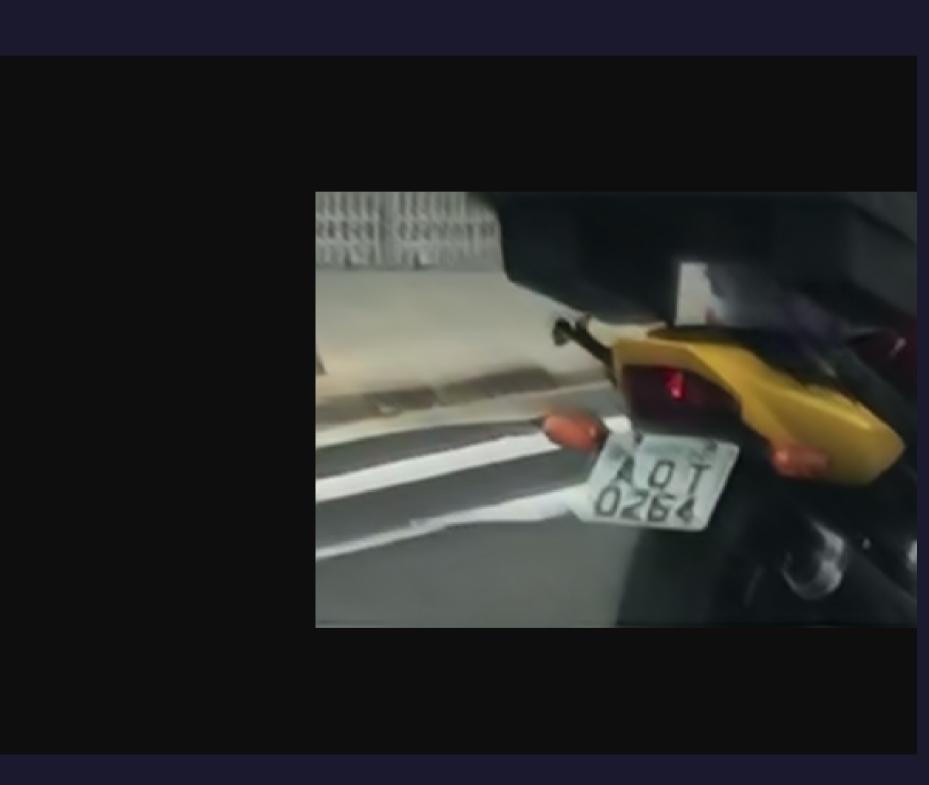














PROJECT DONE

The project at the moment is able to deblur images with motion blur. And we have a pretty simple but user-friendly interface to interact and use the project.



NEXT PLAN

The next plan is to add more features to deblur different blurs like defocus and Gaussian. and being able to recognize license plates in rainy, dark, and other hard conditions.



The deblurring license plate images.





THANKS FORWATCHING

Deblurring license plate image presentation

