



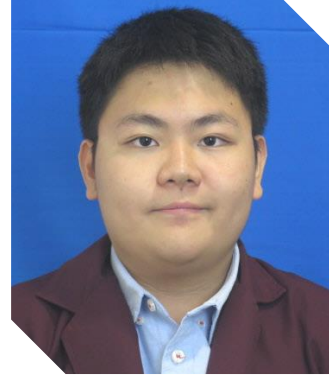
# REAL TIME FINDING PARKING SPACE

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# Problem

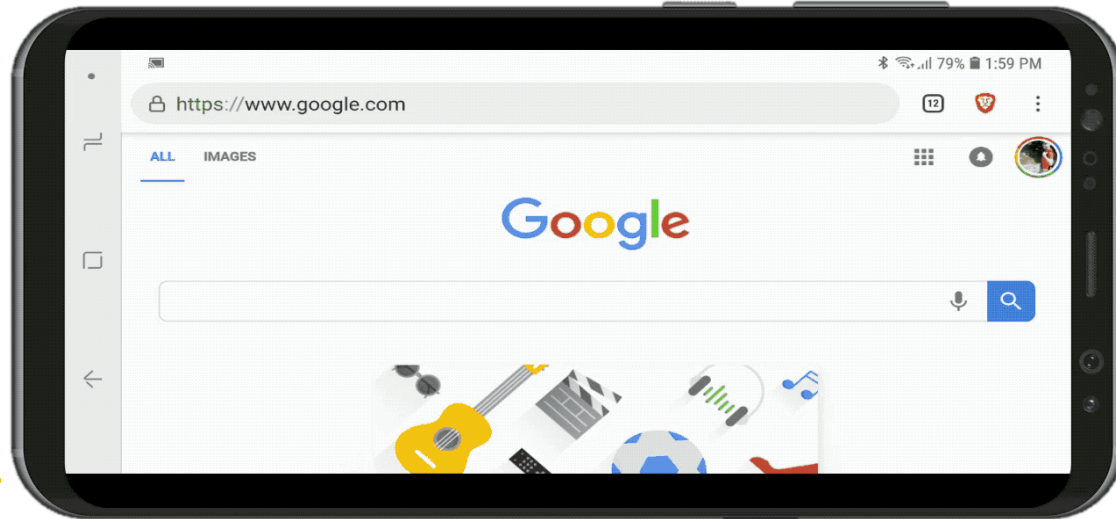
- Finding a parking space in the city is so frustrating especially at the office center, shopping center, or even near the residence



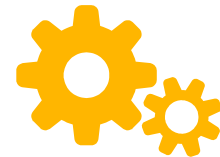
# Solution



An application to track if there is available parking space, this could be used by users or even for a parking area provider at the mall or office



# How it works



1



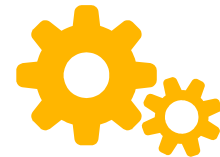
Set the camera  
towards the  
parking space

2

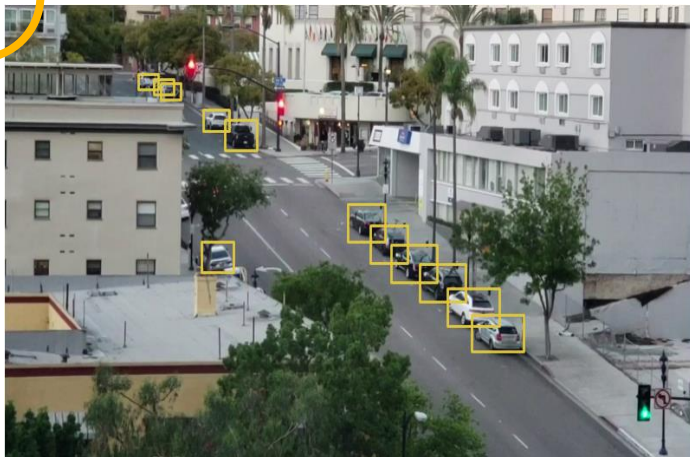


Detect parking  
spaces

# How it works



3



Detect cars in the  
image

4



Detect parking  
space that is newly  
available then  
send SMS



# What we use



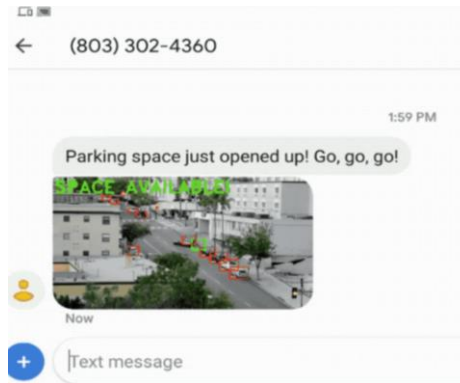
## Object Recognition with Mask R-CNN



## Dataset from COCO



## Twilio API for SMS



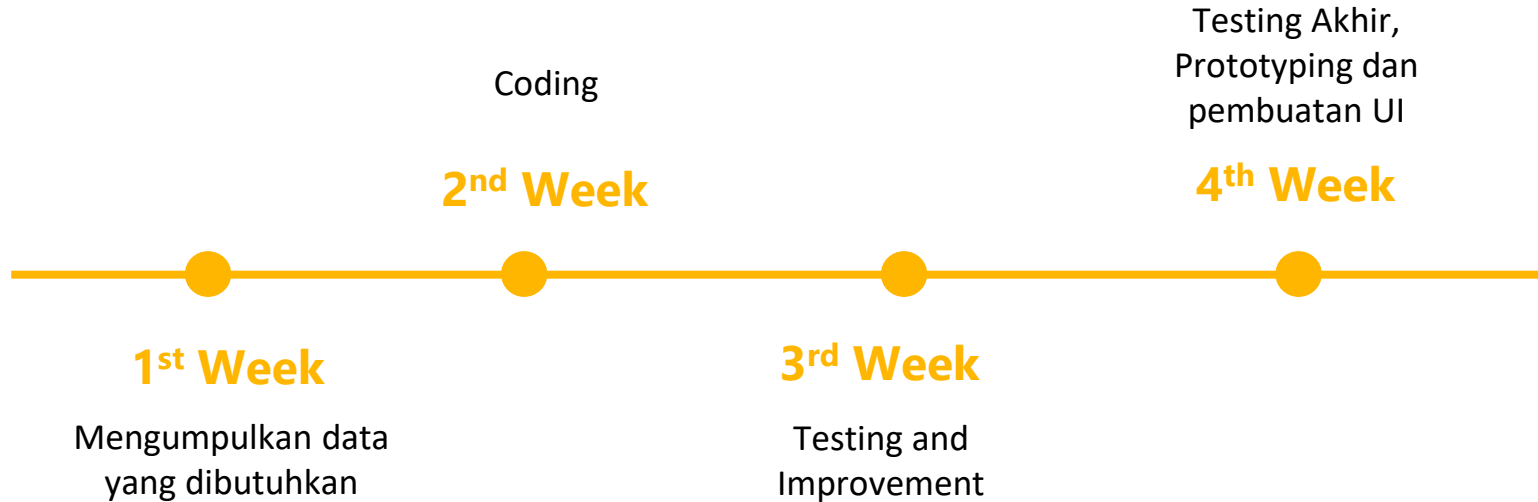
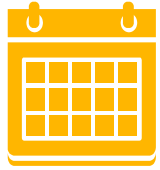
# Key Differentiators



- Object recognition with mask R-CNN is still considered new
- It is a faster technology
- Cheaper
- Useful for cities like Jakarta that lack of parking area



# Timeline





# Resources

- <https://medium.com/@ageitgey/snagging-parking-spaces-with-mask-r-cnn-and-python-955f2231c400>
- <https://www.allstate.com/blog/parking-tips-for-finding-the-best-space/>
- <https://www.videoblocks.com/video/4k-aerial-tracking-over-full-parking-lots-bhi19ctlbj2t2ein5>