## Neuron Internship

24th Nov - 1st Muting-

Topic - Road safety Project → Vehichle deut detection

damage "
scratch "  $\rightarrow$ 

dent + damage + scrath Total classes

Front up Right Rear Total 12 classes

\* Data collection was done from the web

Les Total 400 images considered

Model Initially TFI model was used. Then in place of TF2, the team used <u>Detectron</u>.

O Detectron gane good accuracy (85%) OBut TFI model dédnit have good

Accuracy for 5 clasificat<sup>es</sup>—.

Bounding Box—

- \* Mars RCN is being uned.
  - Detect should be working on a

video rather than images. € 80-20 split Data is mainly pursed on <u>carl</u>. Problem Statement ő - An incurance company night be asing the model. A video of the can will be taken by the insurance ppl. Then the model will tel the amount of damage & then adeit the estimated with of the said damage. later und en collission or (an he ditection. accident Darwin tool was und for data

Ly later uned 900 more imager.

Might not work boot the classes might increase from 3 (seratch, damage. devit) to 10 or even 100 (tire rim issue and many more).

Other topics that night hulp 1) only inservon classes

## Actions to perform

1) Find a new ways to solve

- on propier 2) find some base for each suggestion 3) Reasearch Masked-RCNN 4) Research any available dateset which is pre-labelted. 5) Research the problem statement
- 5) Research the problem state ment 6) If possible find related problem statements (might be useful for transfer learning)