

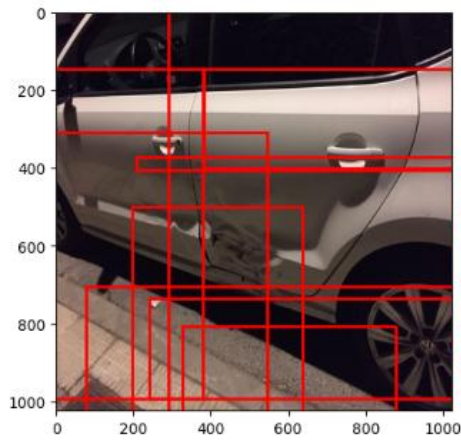
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CSCI 8300

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Final Report Test Cases

Test Cases:



Box Label: Unknown

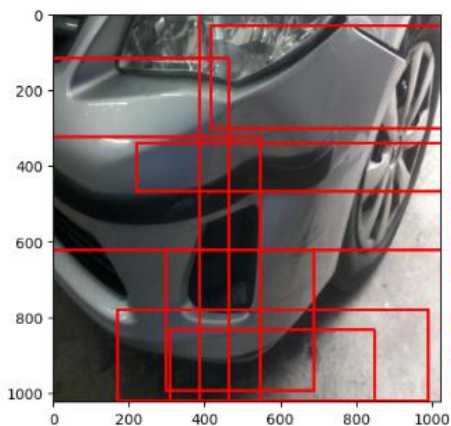
Ext Label: Unknown

Ext Sev Label: Moderate Damage

Int Sev Label: Minor Damage

Int Label: climate system (air conditioning compressor, heater core, blower motor)

Exterior(0.0) + Interior(1300) = Total Cost: 1300.0



Box Label: Unknown

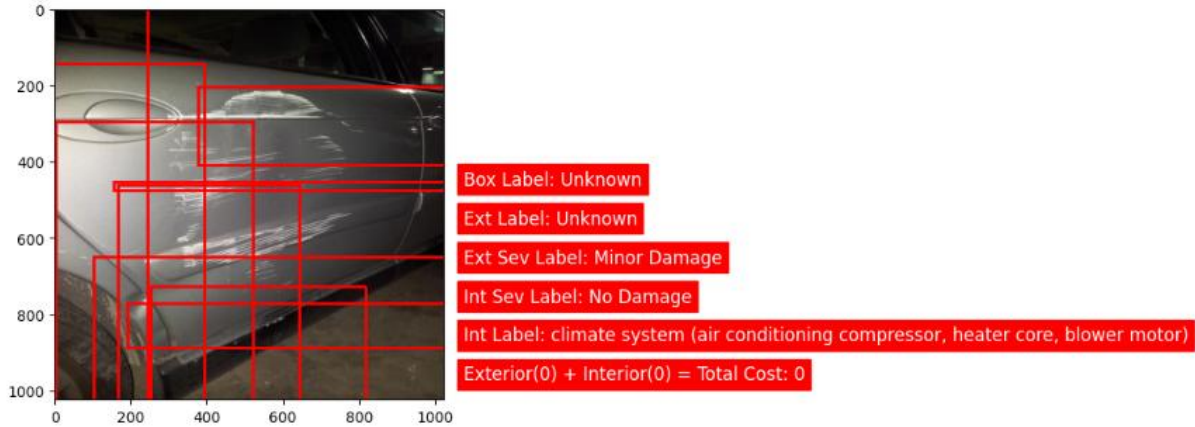
Ext Label: Unknown

Ext Sev Label: Minor Damage

Int Sev Label: Moderate Damage

Int Label: climate system (air conditioning compressor, heater core, blower motor)

Exterior(0) + Interior(1950.0) = Total Cost: 1950.0



The image is the input. The bounding boxes, box label, exterior location label, exterior severity label, interior severity label, interior location label, and cost are all outputs.

These test cases are showing that the bounding boxes are all over the place. Even though the damage is always covered, so is the rest of the image. This suggests that the bounding boxes either are not formatted correctly in the training data, the models do not have enough data to correctly predict where the bounding boxes should be, or there is some other issue with the model. The Box label and Exterior Label is supposed to classify what kind of damage each box is and what part of the exterior contains the damage but all the boxes and exterior labels are Unknown. This might be because the data is output between 0 and 1 and it is rounding down to 0 which is Unknown, the data is messed up, there is not enough data or the model is not working correctly. The Exterior Severity Label and Interior Severity Labels were very accurate. It seems like for those labels the model is performing well and the data was sufficient for the task. The interior location label is always 'climate system (air conditioning, compressor, heater core, blower motor)'. This seems like an issue like the others where the data is not formatted correctly, there is not enough data, or there is an issue with the model. The Cost function is deterministic so it is just a calculation based on the other predictions.