Nalayathiran

Team id : PNT2022TMID05420

Problem statement

Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
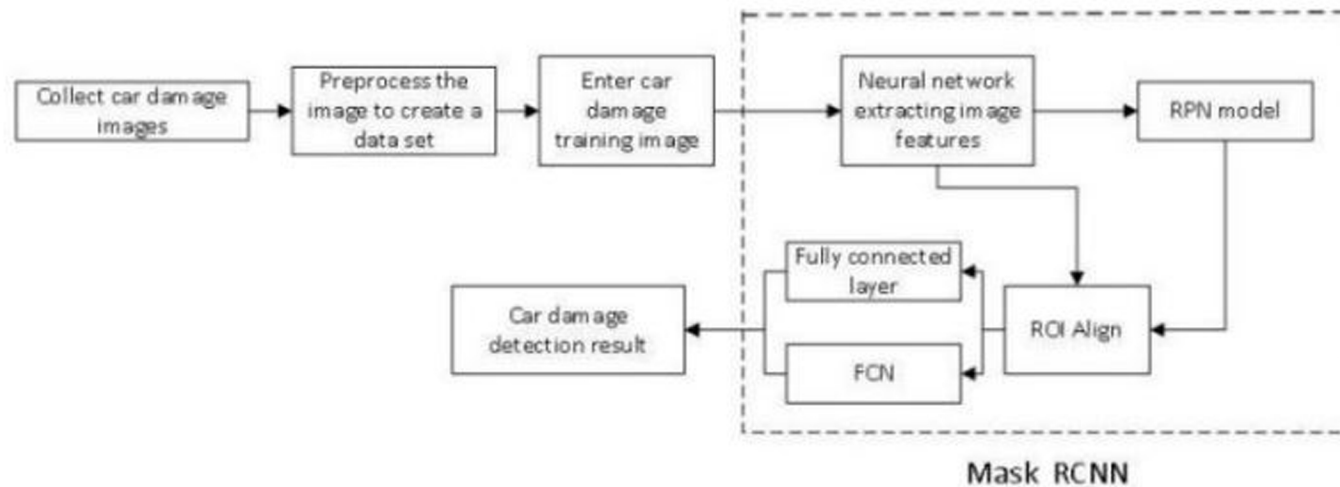
Major problem faced by the customer on insurance companies are not having idea about the cost of the damage .

Claims leakage Underwriting leakage is characterizedas the discrepancy between the actual payment of claims made and the sum that should have been paid if all of the industry's leading practices were applied.

This problem can be solved my involving artificial intellegence technology.

AI can understand the process of identifying and recognizing damaged parts, assessing the extent of damage, predicting the kind of repair needed, and estimating the total cost. This can be achieved with the help of Image/Video Annotation for Computer vision to train ML models. The ML models can extract, analyze, and offer insights that result in a quick inspection process.
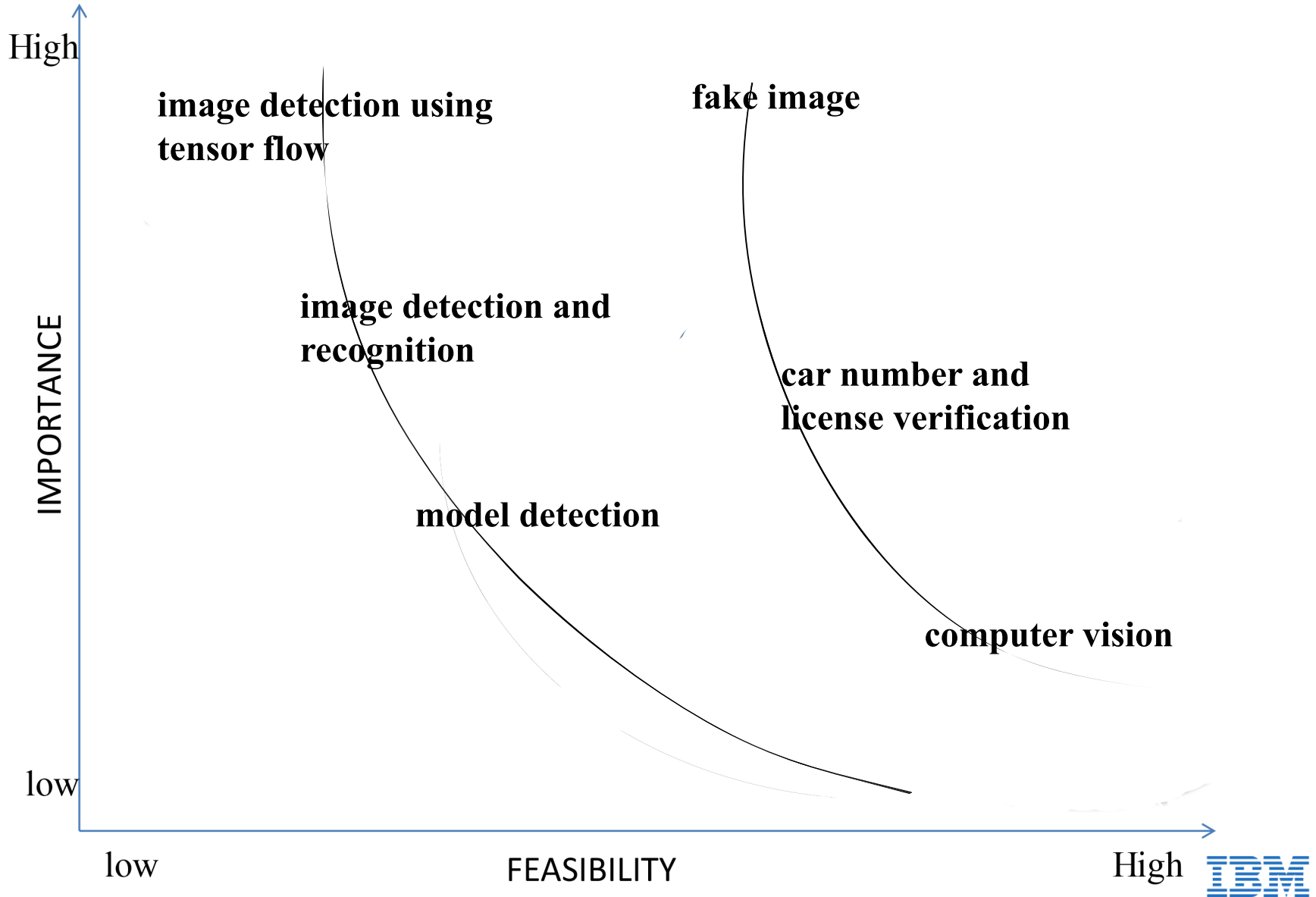
Big Idea

Collect car damage images → Preprocess the image to create a data set → Enter car damage training image → Neural network extracting image features → RPN model

Fully connected layer

Car damage detection result

ROI Align

FCN

Mask RCNN

idea flow

tensor flow

computer vision

image recognition

license verificayion

fake image detection

model analysis

Idea Prioritization

High

IMPORTANCE

low

image detection using tensor flow

image detection and recognition

model detection

fake image

car number and license verification

computer vision

low   FEASIBILITY   High

IBM

Team lead
Darshanaa M(921319205018)

Team members
Boorani P(921319205016
Jeyashri J(921319205050)
Vignesh K(921319205159)