LITERATURE SURVEY

1.	Author/ Publication Year Phyu Mar Kyu, Kuntpong Woraratpanya, 2021	Car Damage Assessment Based on VGG Models.	CNN models on ImageNet dataset to perform different tasks of localization and detection. YOLO object detection model to train and detect damage region as their important pipeline to improve their performance of damage detection	Transfer learning and regularization can work better than those of fine tuning. Pretrained models assess its location and security which help insurance companies to solve claim leakage problems.	CNN cannot accurately calculate the level of damage part. Sometimes overfitting occurs.
2.	Najmeddine Dhieb, Hakim Ghazzai, Hichem Besbes Yehia Massoud, 2019	A Very Deep Transfer Learning Model for Vehicle Damage Detection and Localization.	Combination of deep learning, instance segmentation, and transfer learning techniques for features extraction and damage identification.	Transfer learning significantly reduce the training times when it uses the weight of pretrained VGG models. It has progress on how to classify problems when the small dataset was not enough to train a CNN model.	A traditional CNN model can be very time consuming to perform image classification tasks and identify the correct weights for the network by multiple forward and backward iterations.

3.	U. Waqas, N. Akram, S. Kim, D. Lee and J. Jeon, t, 2012	Damage Assessment of a vehicle and Insurance Reclaim.	Deep learning techniques, Moire effect Detection, Mobile Net model is proposed with transfer learning for classification.	It is a hybrid approach which provide only authentic images to algorithm for damage classification as input. moiré effect detection and metadata analysis	The main drawback was that Images in bad lighting, awkward angles, and vehicle models in a small dataset to achieve
				are performed to detect fraudulent images	automation is difficult but still the range is broad.
4.	Li Ying & Dorai Chitra, 2012	Applying image analysis to auto insurance Triage	Image analysis and pattern recognition are applied to automatically identify and characterize automobile damage.	Because of the advancement of image analysis and pattern recognition technologies, the auto insurance industry could significantly benefit.	The drawback is that the automobile damaged can be analyzed only having white background otherwise it will be not able to give the desired results.
5.	Srimal Jayewardene', 2013	Image based automatic vehicle damage detection	This approach requires 3D computer aided design (CAD) modes of the considered vehicle to identify how it would look if it were undamaged.	Automatically detecting the damage of the vehicle using photographs clicked at the accident site is extremely functional as it can greatly decrease the rate of processing insurance claims, and it will also provide greater	Vehicles have very reflective metallic bodies the photographs taken in such an uncontrolled environment can be expected to have a certain amount of inter object reflection. Application of standard computer vision

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				conveniences for	techniques is a
				customers who	very
				are making the	challenging
				best use of this	task.
				functionality.	
6.	Phyu Mar	Car damage	CNN model is	Pre-trained VGG	Transfer
	Kyu,Kuntpong	detection and	trained on	model not only	learning and
	Woraratpanya	classification	ImageNet dataset.	detect damaged	regularization
	,2020		After fine tuning	part of a car but	can work better
			the dataset, transfer	also assess its	than those of
			learning with L2	location and	fine tuning.
			regularization is	severity.	
			applied		
7.	M.Wassel,	A Secure AI-	Blockchain, data	Proposed	The major
	2019	driven	analysis, machine	classifiers ensure	drawback of the
		Architecture	learning, AI for	not only the best	proposed model
		for	damage	accuracy in	is that it only
		Automated	identification.	detecting	identifies the
		Insurance		fraudulent claims	physical visible
		Systems:		but also can	damage and not
		FraudDetecti		classify different	of the internal
		on and Risk		types of fraud for	or the interior
		Measurement		insurance unlike	damage.
				the existing	
				solutions.	
		Measurement		the existing	damage.