**LITERATURE SURVEY**

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| SNO | TITLE OF THE PAPER | NAME OF  THE JOURNAL | AUTHOR | YEAR  OF  PUBLISHING | ACHIEVEMENTS | DRAWBACKS |
| 1. | Research on Intelligent Vehicle Damage Assessment System Based on  Computer Vision | Research Gate | Zhu Qianqian, Guo Weiming, Shen Ying,  Zhao Zihao | 2020 | The system which is been proposed helps by taking photos by one click to achieve rapid loss determination, price estimation and immediate compensation. | Adding on to this, innovation of insurance technology of ‘AI + Vehicle Insurance’ can be brought into the project by using the power of intelligent damage determination system. |
| 2. | Damage Assessment of a vehicle and Insurance Reclaim | IJCRT | Vaihav Agarwal, Utsav Khandelwal, Shivam Kumar, Raja Kumar, Shilpa M | 2022 | A System has been designed using CNN and image classification which takes the input from user as an image to test the severity of damage. | This model only identifies the physical visible damage and not of the internal or the interior damage. |
| 3 | Damage Assessment for Car Insurance | IRJET | Pranali Patil, Harsha Pawar, Mrunali Walanj, Priyanka Giri | 2019 | Using deep learning, this model has developed where user will upload image or images of damaged car with the help phone’s camera, then according to damage calculation, the total cost of car will be displayed in report format. | It is observed that transfer learning combined with ensemble learning works the best. |
| 4 | Car Damage Assessment based on VGG models | JSCI8 | Phyu Mar Kyu,  Kuntpong Woraratpanya | 2019 | This project has described applicable deep learning-based algorithms for car damage assessment in the real-world datasets. | This model is still facing over-fitting problems. Hence it has to utilize other types of regularization techniques with a large dataset. |
| 5 | Automatic vehicle damage detection with images. | U.PORTO | Faculdade de Engenharia da Universidade do porto | 2017 | The goal of this model is to develop a system capable of automatically identifying and locating damages in images of cars. | More rigorous estimation of human performance in these tasks might also be useful. The usage of alternative methods, possibly using these models only as feature extractors, might prove worthy. |