Team id:PNT2022TMID34307

Literature Survey

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| S.  No | Authors  Title and  Publication | Technology | Advantage | Disadvantage |
| 1. | Praful Rane,Deep  Pandya,Dhawal Kotak,  ‘USED CAR PRICE  PREDICTION’,  International Research Journal of Engineering and Technology (IRJET) Published in April 4,2021 | Random Forest  Regression, Hyper parameters Random forest, Extra-tree  Regressor | It is estimated that a car’s value depriciated to almost 50%. The calculation for the first year is about 20%. That means if you buy a used car that was launched a year ago, you can save upto 20% on its original cost. | Even we curated a list of car that are available under 50,000 but that wasn’t for you to buy and use for your daily commute. Usually, these cars are lemons. They look fine on the outside but can land you in huge repair costs while you use them. |
| 2. | Enis Gegic,Becir  Isakovic,Dino Keco  Zerina Masetic,  Jasmin Kevric,  ‘Car Price Prediction using  Machine Learning  Techniques’,  TEM Journal  Published in February  16,2019 | Artificial Neural  Network, Support  Vector Machine and Random Forest | The most obvious advantage among pros and cons of buying a used car is that you get the car at a cheaper price therefore you have to apply for a loan of a lesser amount and therefore, you are liable to pay a lesser interest on that too. | The manufacturer is not responsible for that. Provided, if the car comes with an already existing warranty straight from the manufacturer, you can get it transferred but you won’t get any warranty/guarantee if you buy from an individual. |
| 3. | Aditya Nikhade,Rohan  Borde,  ‘Car Price Prediction using Machine Learning’,  International Advanced  Research Journal in  Science, Engineering and Technology  Published in April 4,2022 | Linear Regression, Ridge Regression and Lasso  Regression | But the insurance premium for a new car is comparatively higher than an old car. If you search for a good vehicle in the used car market, the previous owner has already paid the hefty premiums when the car was new. | However, banks and loan providers usually charge a higher rate of interest on a used car loan than they do on a new car loan. Their need to earn more anyhow so here’s the catch. |
| 4. | R. Uma, J. Kamal ,G. Sri Siva Thandavan ,S.  Raghul,  ‘Forecasting Vehicle  Prices using Machine  Learning Techniques’,  INTERNATIONAL  JOURNAL OF | Random Forest,  XGBoost, LightGBM,  CatBoost, Extra Trees | In my case, I bought a Maruti Suzuki car from a True Value dealership and the car was still under its original warranty from the factory. So I got dual benefits. will get True Value’s additional warranty. | Find a car that has got a good engine and suspension but lacks on features because its a lower variant. On the other hand, you find a higher variant model that has not been maintained properly a bit challenging. |

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|  | ENGINEERING RESEARCH  & TECHNOLOGY (IJERT)  Published in June 15,2022 |  |  |  |
| 5. | Mukkesh Ganesh,  Pattabiraman  Venkatasubbu,  ‘Used Cars Price Prediction using  Supervised Learning  Techniques’,  [International Journal of](https://www.researchgate.net/journal/International-Journal-of-Engineering-and-Advanced-Technology-2249-8958)  [Engineering and](https://www.researchgate.net/journal/International-Journal-of-Engineering-and-Advanced-Technology-2249-8958)  [Advanced Technology](https://www.researchgate.net/journal/International-Journal-of-Engineering-and-Advanced-Technology-2249-8958) Published in December  2019 | ANOVA, Lasso Regression,  Regression Tree, Tukey’s  Test | If you buy a used car from a brand authorised dealership, you get a warranty on the repair. Read this carefully. In my case, I bought a Maruti Suzuki car from a True Value dealership and the car was still under its original warranty from the factory. | The case with the used car market is a little different. There is no special month, they don’t have to worry about the year ends too. Although the prices are obviously lower in the used car markets, you don’t get that much “discounts”. |
| 6. | Mr. Ram Prashath R,  NIthish C N, Ajith  Kumar J,  ‘Price Prediction of Used  Cars Using Machine  Learning’  International Journal For  Research in Applied  Science and Engineering  Technology  Published in May 28,2022 | Lasso Regression, Ridge  Regression, Linear  Regression | In the used car market, this strategy can benefit vendors, purchasers, and car manufacturers. It can then produce a reasonably accurate price estimate based on the data that users provide. | Due to the huge requirement of used cars and lack of experts who can determine the correct valuation, there is an utmost need of bridging this gap between sellers and buyers. |
| 7. | Sameerchand Pudaruth  ‘Predicting the Price of  Used Cars using Machine  Learning Techniques’  International Journal of  Information &  Computation Technology  Published In 2014 | Multiple linear regression analysis, k-nearest neighbours , naive bayes and decision trees | This is the major differential between a new car and a used car. For the same cost of a new car, you can buy a used car from a couple of segments above. Imagine getting a D-segment car  for the price of top-end premium hatchback. | While you will be saving on lesser down payment and insurance costs, a used car comes with years of wear and tear in its parts and thousands of kilometers in its odo. |
| 8. | K.Samruddhi, Dr.  R.Ashok Kumar,  ‘Used Car Price Prediction using K-Nearest Neighbor Based Model’  International Journal of  Innovative Research in  Applied Sciences and  Engineering (IJIRASE)  Published in September  2020 | K Nearest Neighbor Regression Crossvalidation, K-Fold. | When you decide to sell your car, the depreciation value is lesser on a used car than a new one, as most of the depreciation happens in the first two or three years. | While you will be saving on lesser down payment and insurance costs, a used car comes with years of wear and tear in its parts and thousands of kilometers in its odo. That equals more time and money for maintenance. |
| 9. | Abhishek Jha,  Dr. Ramveer Singh  Manish, Imran Saifi,  Shipra Srivastava,  ‘Used car price prediction’  International Journal of Advance Research, Ideas and Innovations in Technology(IJARIIT)  Published in July 19,2021 | Python, Flask, Pandas,  Numpy, Seaborn, Sklearn, Matplotlib, Random Forest Regressor. | While it’s true that it’s harder to get financing as easily as a new car, you get to pay a lot lesser in the case of used cars. The same goes for insurance too as you will be paying a lesser insurance bill. | When you buy a new car, it's made to order. You have the option of picking the color, the features, whether or not you want a sunroof, and more. When you buy a used car, you get what you pay for. If the car has a crappy radio, you'll have to deal with it or pay to have it replaced. |
| 10. | Ashutosh Datt Sharma,  Vibhor Sharma,  Sahil Mittal,  Gautam Jain,  Sudha Narang,  ‘Predictive Analysis of  Used Car Prices Using  Machine Learning,  International Research Journal of Modernization in Engineering  Technology and Science  Published in June 6,2021 | Random Forest  Regression(Python,  Pandas, NumPy,  Matplotlib, Seaborn,  Scikit-learn, Plotly, Pickle,  HTML, CSS, Flask, Jsonify) | That’s because modifying it during the 3- to the 5 years since it was bought will void the warranty. If the 2nd hand vehicle you plan to buy is past that period, you’re now free to “pimp” your ride. | Vehicles went from having CD players to auxiliary plugs to  Bluetooth connections. When you purchase a used car, there's a chance you'll be getting older and less reliable technology. |