| | 2장 연습문제 2.1 | | | | | | | | | |
|----------------------|--|--|---|--|--|---|---|---|-------------------|-----------|
| | 지도학습: 예측 혹은 원 비지도학습: 예측 혹은 취치끼리 군집하며, 차 | 은 분류하고자 하는 | 변수가 존자 | 배하지 않을 경 | 경우 사용됨 | . 특정 모 | | | | 슷한 관 |
| | a. 지도학습 • 예측 혹은 분류 하고저 | | | | | |) | | | |
| | b. 지도학습예측 혹은 분류 하고저c. 지도학습 | 자 하는 변수: 소비기 | 다가 좋아할 [:] | 것 같은 책 | | | | | | |
| | • 예측 혹은 분류 하고저 d. 비지도학습 | | 운 네트워크 [| 데이터 패킷 | 의 상태 (범 | 주형 변수 | ~->분류) | | | |
| | 비슷한 관측치끼리 군 e. 지도학습 예측 혹은 분류 하고자 | | 회사의 파산 | 여부 (범주형 | 형 변수->분 | 류) | | | | |
| | f. 지도학습예측 혹은 분류 하고져g. 비지도학습 | 자 하는 변수: 항공기 | 기 수리 시간 | (연속형 변숙 | 수->예측) | | | | | |
| | 비슷한 관측치끼리 군h. 지도학습 | <u>.</u> 집 | | | | | | | | |
| | 예측 혹은 분류 하고자2.2검증데이터 | 가 하는 변수: 할인 | 쿠폰의 발행 | 여부 (범주형 | 형 변수->분 | 류) | | | | |
| | 학습데이터로부터 구평가데이터구축된 모델이 미래어 | | | | | 1늘을 보일 | !지 평가한 때 사 | 용되다 | | |
| | 검증데이터와 평가데이터 모델평가에 있어 가정 미래값에 대한 정확한 | 의 차이:) 객관적인 방법은 | 모델구축에 | 전혀 사용되 | 지 않는 평 | 가데이터 | | | | |
| | 즉, 검증데이터는 성분 일부, 평가데이터는 장2.3 | | | | ≐ 과정에서 | ╷ 과적합 등 | 등 문제가 생길 수 | : 있으므로 검증데이 | 터는 모델 구 | ·축의 |
| | . 0 이 결측치인건가? 결 2.4 1. 목적: 미래의 융자 수 | | 하게 잘 샘플 | 링 된거 아닌 | l가? | | | | | |
| | 2. 데이터 획득: 은행 데(3. 데이터 탐색, 정제, 전 4. 차원 축소: 10개의 변 5. 데이터마이닝 태스크 | 이터베이스 처리: personal loa 수이므로 필요 x | | | | | | 또, 이상치가 있는 경 | 경우 제외한 | 다. |
| | 6. 데이터 분할 7. 데이터마이닝 기법: 대 8. 알고리즘 사용 9. 결과 해석 10. 모델 사용 | 구중회귀분석 | | | | | | | | |
| | • 데이터베이스에 있는 중회귀분석을 할 것 같 2.5 | | experience | 등)과 perso | onal Ioan의 | 상관관계 | 를 구하고 그 정도 | E가 높은 변수들과 p | oersonal loa | n과 다 |
| | 오차가 0이 나올 수도 있지만 과적합일 경우 현재 데이터만 잘 설명하고 정작 제일 중요한 미래 값에 대한 정확한 예측 면에서는 정확도가 떨어질 수 있다. 즉, 구현한 모델이 "현재" 데이터에 "과하게" 적합되어 오차가 0이 나올 수 있는 것이다. 또, 우연히 모델에 잘 맞아 우수한 성능을 보였을 수도 있다. | | | | | | | | | |
| | 2.6 refund issued(환불여부) 변대정보가 없는데 환불여부 연수를 사용하다. | 부는 구매정보를 알 | | | | | | | | |
| | 2.7 결측치 아닐 확률: (0,95) ^{^(} | 50 = 0.077 -> 약 9 | 2%의 데이터 | ㅓ를 삭제해○ | ⊧함, 1000 7 | ዘ의 관측계 | 치 중 920개의 관· | 측치가 삭제된다. | | |
| In [4]: In [5]: | Timpor C parituas as pu | | S5 32 A1 20 | 21 | | | | | | |
| out[5]: | df 나이 수입(달러) | ["나이": [25,56,6 "수입(달러)": [49 | | | 192000,39 | 000,5700 | 90]}) | | | |
| | 0 25 49000 1 56 156000 2 65 99000 3 32 192000 4 41 39000 | | | | | | | | | |
| In [12]: | 5 29 57000 | nean()) / de | d() | | | | | | | |
| Out[12]: | norm_df1 | ean()) / ur.sc | u() | | | | | | | |
| | 0.916190 0.911977 1.478397 0.005302 -0.583030 1.484614 -0.020822 -0.949093 | | | | | | | | | |
| In [13]: | <pre>5 -0.770432 -0.662774 # scikit-learn from sklearn.prepro</pre> | ocessing import | MinMaxSca | ıler, Stan | dardScale | ;r | | | | |
| In [14]: | <pre>scaler = StandardSc norm_df2 = pd.DataF norm_df2</pre> | | t_transfor ndex, colu | m(df), mns=df.co | lumns) | | | | | |
| Out[14]: | 나이 수입(달러) 0 -1.117685 -0.865431 1 1.003635 0.999021 2 1.619503 0.005808 | | | | | | | | | |
| | 3 -0.638677 1.626314 4 -0.022810 -1.039679 5 -0.843966 -0.726033 | | | | | | | | | |
| | 2.9 데이터를 정규화함으로써 다르고 그에 따라 수입의 ! 를 얻을 수 있다. | | | | | | | | | |
| | 2.10 모델B, 모델평가에 있어 7 성능차이를 보였으니 학습 | | | | | | | | | 베서의 |
| In [23]: | <pre>2.11 car_df = pd.read_cs</pre> | v("ToyotaCorol | la.csv") | | | | | | | |
| In [55]: Out[55]: | car_df.shape (1436, 39) | | | | | | | | | |
| In [25]: Out[25]: | car_ur.neau() | Age_08_04 | onth Mfg_Ye | ear KM | Fuel_Type | HP Met_ | _Color Powe | red_Windows Powe | r_Steering | Radio Mis |
| | 2.0 D4D 0 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA | 23 | 10 20 | 002 46986 | Diesel | 90 | 1 | 1 | 1 | 0 |
| | Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA | 23 | 10 20 | 002 72937 | Diesel | 90 | 1 | 0 | 1 | 0 |
| | Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3- Doors TOYOTA | 24 | 9 20 | 002 41711 | Diesel | 90 | 1 | 0 | 1 | 0 |
| | Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors TOYOTA | 26 | 7 20 | 002 48000 | Diesel | 90 | 0 | 0 | 1 | 0 |
| | Corolla 2.0 D4D HATCHB SOL 2/3- Doors 5 rows × 39 columns | 30 | 3 20 | 002 38500 | Diesel | 90 | 0 | 1 | 1 | 0 |
| In [28]: | | <i>변수가 범주형 변</i> int64 | <i> 수인 것을 ^홈</i> | 학인하였습니 | 다 | | | | | |
| Out[28]: | Model Price Age_08_04 Mfg_Month Mfg_Year KM | object int64 int64 int64 int64 int64 | | | | | | | | |
| | Fuel_Type HP Met_Color Color Automatic CC | object int64 int64 object int64 int64 | | | | | | | | |
| | Doors Cylinders Gears Quarterly_Tax Weight Mfr_Guarantee BOVAG_Guarantee | <pre>int64 int64 int64 int64 int64 int64 int64 int64</pre> | | | | | | | | |
| | Guarantee_Period ABS Airbag_1 Airbag_2 Airco Automatic_airco | int64 int64 int64 int64 int64 int64 | | | | | | | | |
| | Boardcomputer CD_Player Central_Lock Powered_Windows Power_Steering Radio | <pre>int64 int64 int64 int64 int64 int64</pre> | | | | | | | | |
| | Mistlamps Sport_Model Backseat_Divider Metallic_Rim Radio_cassette Parking_Assistant Tow_Bar | <pre>int64 int64 int64 int64 int64 int64 int64 int64</pre> | | | | | | | | |
| In [36]: | a. 범주형 변수인 ' | 111004 | | `olor" 벼 | 수를 가 | 변수로 | 변환하기 | | | |
| Out[36]: | cai_aii = cai_aii.co | ppy() | | | | | | | | |
| | car_df1 = pd.get_du car_df1.head() Id Model Price A | ppy() ummies(car_df1, | columns=[| "Fuel_Type | | | | drop_first = Tr Type_Petrol Color_I | , | _Blue Col |
| | car_df1 = pd.get_du car_df1.head() Id Model Price A TOYOTA Corolla 2.0 D4D 0 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA | ppy() ummies(car_df1, | columns=[onth Mfg_Ye | "Fuel_Type | HP Met_C | | | | , | _Blue Col |
| | car_df1 = pd.get_du car_df1.head() Id Model Price / TOYOTA Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA TERRA 2/3- Doors TOYOTA | opy() ummies(car_df1, Age_08_04 Mfg_M | columns=[onth Mfg_Ye 10 20 | "Fuel_Typo | HP Met_C | olor Auto | omatic Fuel_ | Type_Petrol Color_I | Black Color | |
| | car_df1 = pd.get_du car_df1.head() Id Model Price A TOYOTA Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors | opy() ummies(car_df1, Age_08_04 Mfg_Mc | columns=[onth Mfg_Ye 10 20 | "Fuel_Type ear KM | HP Met_C | olor Auto | omatic Fuel_ | Type_Petrol Color_I | Black Color | 1 |
| | car_df1 = pd.get_du car_df1.head() Id Model Price / TOYOTA Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors | opy() Immies(car_df1, Age_08_04 Mfg_Mc 23 | columns=[onth Mfg_Ye 10 20 9 20 | ear KM 002 46986 | 90 90 90 | olor Auto | omatic Fuel_ | Type_Petrol Color_I | Black Color 0 | 0 |
| | car_df1 = pd.get_du car_df1.head() Id | ppy() nmmies(car_df1, Age_08_04 Mfg_Mc 23 | columns=[onth Mfg_Ye 10 20 9 20 7 20 | ear KM 002 46986 002 72937 | HP Met_C90909090 | olor Auto | 0 0 | Type_Petrol Color_I 0 0 | O O | 1 0 |
| In [37]: | car_df1 = pd.get_du car_df1.head() Id | ppy() nmmies(car_df1, Age_08_04 Mfg_Md 23 24 26 30 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| In [37]: Out[37]: | car_df1 = pd.get_du car_df1.head() Id Model Price / TOYOTA | 23 24 26 1, Diesel으로, int64 object int64 int64 int64 int64 int64 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price A Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 4 5 VARIABE SOL 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D TERRA 2/3- Doors | opy() immies(car_df1, Age_08_04 Mfg_M 23 23 24 26 30 30 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | car_df1 = pd.get_du car_df1.head() Id Model Price // TOYOTA | 23 24 26 27 28 29 29 20 20 20 21 22 22 23 24 26 26 26 27 28 29 20 20 20 20 20 20 20 20 20 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 D4D 1 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 14 HATCHB TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 13750 TOYOTA Corolla 2.0 D4D 4 5 HATCHB SOL 2/3- Doors TOYOTA Corolla 2.0 D4D 4 5 HATCHB SOL 2/3- Doors TOYOTA Corolla 2.0 D4D 4 5 HATCHB SOL 2/3- Doors TOYOTA Corolla 2.0 D4D TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D TERRA 2/3- Doors TOYOTA Cor | 23 24 26 30 1, Diesel으로, int64 object int64 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 D4D 1 HATCHB 13750 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB SOL 2/3-Doors TOYOTA Corolla 2.0 D4D HATCHB SOL 2/3-Doors 5 rows × 48 columns Car_df1.dtypes # Fuel_Type Petro. Id Model Price Age_08_04 Mfg_Month Mfg_Year KM HP Met_Color Automatic CC Doors Cylinders Gears Quarterly_Tax Weight Mfr_Guarantee BOVAG_Guarantee Guarantee_Period ABS Airbag_1 Airbag_2 Airco Automatic ccc Coordinate Condition of the color of the c | 23 23 23 24 24 26 30 30 30 30 30 30 30 30 30 3 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 14950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 13750 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D HATCHB SOL 2/3-Doors 5 rows × 48 columns car_df1.dtypes # Fuel_Type Petro. Id Model Price Age_08_04 Mfg_Month Mfg_Year KM HP Met_Color Automatic CC Doors Cylinders Gears Quarterly_Tax Weight Mfr_Guarantee BOVAG_Guarantee Guarantee Period ABS Airbag_1 Airbag_2 Airco Automatic_airco Bourday Power_Steering Radio Mistlamps | 23 23 23 24 26 30 27 int64 object int64 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 D4D 1 HATCHB 13500 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D 3 5 HATCHB 13950 TERRA 2/3-Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 SOL 2/3-Doors TOYOTA COROLL 13750 | 23 23 24 24 24 26 27 28 29 29 20 20 20 20 20 20 20 20 | columns=[onth Mfg_Ye 10 20 9 20 7 20 3 20 | ear KM 002 46986 002 72937 002 41711 | HP Met_C 90 90 90 90 | olor Auto 1 1 0 | 0 0 0 | Type_Petrol Color_I 0 0 0 0 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 DAD 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 4 5 2.0 D4D HATCHB 13750 SOL 2/3- Doors 5 rows × 48 columns Car_df1.dtypes # Fuel_Type Petro. Id Model Price Age_08_04 Mfg_Month Mfg_Year KM HP Met_Color Automatic CC Doors Cylinders Gears Quarterly_Tax Weight Mfr_Guarantee BOVAG_Guarantee Guarantee-Period ABS Airbag_1 Airbag_2 Airco Automatic_airco Boardcomputer CD_Player CD-Player CD-Player CD-Player Central_Lock Power_Steering Radio Mistlamps Sport_Model Backsealt_Cairco Boardcomputer CD-Player CPlayer CPlayer CPlayer Central_Lock Power_Steering Radio Mistlamps Sport_Model Backsealt_Cairco Boardcomputer CD-Player CD-Player CD-Player CD-Player Central_Lock Power_Steering Radio Mistlamps Sport_Model Backsealt_Cairco Boardcomputer CD-Player CD-Play | 23 23 24 24 24 26 30 30 30 30 30 30 30 30 30 3 | columns=[onth Mfg_Ye 10 20 9 20 3 20 Color € Bl. | ear KM 002 46986 002 41711 002 48000 002 38500 | #P Met_C 90 90 90 90 | 1 1 1 1 1 1 1 | の … | Type_Petrol Color_I 0 0 0 0 0 0 0 1 1 1 1 1 1 | Black Color 0 0 | 1 0 |
| | Id Model Price // TOYOTA Corolla 2.0 D4D 0 1 HATCHB 13500 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 1 2 HATCHB 13750 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 2 3 HATCHB 13950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 3 4 HATCHB 14950 TERRA 2/3- Doors TOYOTA Corolla 2.0 D4D 4 5 20 D4D HATCHB 13750 SOL 2/3- Doors TOYOTA Corolla 2.0 D4D HATCHB 13750 SOL 2/3- Doors 5 rows × 48 columns Car_df1.dtypes # Fuel_Type Petro. Id Model Price Age_08_04 Mfg_Month Mfg_Year KM HP Met_Color Automatic CC CDoors Cylinders Gears Quarterly_Tax Weight Mfr_Guarantee Guarantee-Period ABS Airbag_1 Airbag_2 Airco Automatic_airco Boordcomputer CD_Player Central_Lock Powered_Windows Power_Steering Radio Mistlamps Sport_Model Backseal_Divider Metalloc_asiet Radio_caset Powered_Windows Power_Steering Radio Mistlamps Sport_Model Backseal_Divider Metalloc_Rier Color_Player Central_Lock Powered_Windows Power_Steering Radio Mistlamps Sport_Model Backseal_Divider Metalloc_asiet Radio_caset Power_Steering Radio Mistlamps Sport_Model Backseal_Divider Metalloc_asiet Redio_caset Redi | 23 23 24 24 26 26 30 30 30 30 30 30 30 30 30 3 | columns=[onth Mfg_Ye 10 20 9 20 3 20 Color € Bl. | ear KM 002 46986 002 41711 002 48000 002 38500 | #P Met_C 90 90 90 90 | 1 1 1 1 1 1 1 | の … | Type_Petrol Color_I 0 0 0 0 0 0 0 1 1 1 1 1 1 | Black Color 0 0 | 1 0 |
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