```
In [3]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

In [4]: df=pd.read_csv(r"C:\Users\DELL\Downloads\car_insurance_premium_dataset.csv")

In [5]: df.head()

Out[5]:

| | Driver Age | Driver Experience | Previous Accidents | Annual Mileage (x1000 km) | Car Manufacturing Year | Car Age | Insurance Premium (\$) |
|---|---------------|----------------------|-----------------------|------------------------------------|------------------------------|------------|------------------------------|
| 0 | 56 | 32 | 4 | 17 | 2002 | 23 | 488.35 |
| 1 | 46 | 19 | 0 | 21 | 2025 | 0 | 486.15 |
| 2 | 32 | 11 | 4 | 15 | 2020 | 5 | 497.55 |
| 3 | 60 | 0 | 4 | 19 | 1991 | 34 | 498.35 |
| 4 | 25 | 7 | 0 | 13 | 2005 | 20 | 495.55 |

In [6]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 7 columns):

| Column | Non-Null Count | Dtype |
|-----------------------------------|--|--|
| | | |
| Driver Age | 1000 non-null | int64 |
| Driver Experience | 1000 non-null | int64 |
| Previous Accidents | 1000 non-null | int64 |
| Annual Mileage (x1000 km) | 1000 non-null | int64 |
| Car Manufacturing Year | 1000 non-null | int64 |
| Car Age | 1000 non-null | int64 |
| <pre>Insurance Premium (\$)</pre> | 1000 non-null | float64 |
| | Driver Age Driver Experience Previous Accidents Annual Mileage (x1000 km) Car Manufacturing Year Car Age | Driver Age 1000 non-null Driver Experience 1000 non-null Previous Accidents 1000 non-null Annual Mileage (x1000 km) 1000 non-null Car Manufacturing Year 1000 non-null Car Age 1000 non-null |

dtypes: float64(1), int64(6)

memory usage: 54.8 KB

In [7]: df.describe()

| Out[7]: | | Driver Age | Driver Experience | Previous Accidents | Annual Mileage (x1000 km) | Car Manufacturing Year | Car Age |
|----------|--|---|----------------------|-----------------------|---------------------------------|------------------------------|-------------|
| | count | 1000.000000 | 1000.000000 | 1000.0000 | 1000.000000 | 1000.000000 | 1000.000000 |
| | mean | 41.575000 | 14.759000 | 2.5680 | 17.933000 | 2007.637000 | 17.363000 |
| | std | 13.765677 | 10.544292 | 1.6989 | 4.410665 | 10.363331 | 10.363331 |
| | min | 18.000000 | 0.000000 | 0.0000 | 11.000000 | 1990.000000 | 0.000000 |
| | 25% | 30.000000 | 6.000000 | 1.0000 | 14.000000 | 1999.000000 | 8.000000 |
| | 50% 42.000000 75% 53.000000 max 65.000000 | | 13.000000 | 3.0000 | 18.000000 | 2008.000000 | 17.000000 |
| | | | 23.000000 | 4.0000 | 22.000000 | 2017.000000 | 26.000000 |
| | | | 40.000000 | 5.0000 | 25.000000 | 2025.000000 | 35.000000 |
| | 4 @ | | | | | | • |
| In [8]: | df.isn | ull().sum() | | | | | |
| Out[8]: | Previo Annual Car Ma Car Ag Insura | Experience ous Accidents Mileage (x1 nufacturing | 000 km) 0 Year 0 |))) | | | |
| In [9]: | df.shape | | | | | | |
| Out[9]: | (1000, | 7) | | | | | |
| In [10]: | df.dup | licated() | | | | | |
| Out[10]: | 0 1 2 3 4 995 996 997 998 999 Length | False | e: bool | | | | |
| In [11]: | df.hea | d() | | | | | |

| Out[11]: | | Driver Age | Driver Experience | Previous Accidents | Annual Mileage (x1000 km) | Car Manufacturing Year | Car Age | Insurance Premium (\$) |
|----------------------|----------|---|---|--|------------------------------------|---------------------------------|------------|------------------------------|
| | 0 | 56 | 32 | 4 | 17 | 2002 | 23 | 488.35 |
| | 1 | 46 | 19 | 0 | 21 | 2025 | 0 | 486.15 |
| | 2 | 32 | 11 | 4 | 15 | 2020 | 5 | 497.55 |
| | 3 | 60 | 0 | 4 | 19 | 1991 | 34 | 498.35 |
| | 4 | 25 | 7 | 0 | 13 | 2005 | 20 | 495.55 |
| In [12]: In [13]: | y = sns. | df['In boxplo | p(['Insurance surance Prem: t(df) (figsize=(10 | ium (\$)'] |)'], axis=1 | 1) | | |
| | 2000 | , [| | | | | | |
| | 1750 | ,] | | | | | | |
| | | | | | | | | |
| | 1500 | ' - | | | | | | |
| | 1250 |) - | | | | | | |
| | 1000 | , - | | | | | | |
| | 750 | | | | | | | |
| | | | | | | | | |
| | 500 | | | | | | | |
| | 250 |) - | | | | | | |
| | C | , | | | | | _ | |
| | | Drive | rDAngiererExpRer | reiveiro Austra Aucadio | NeihetasGaer (MZe) | ბი რ ak bou)ringC¥adeaAs | gueance | Premium (\$) |
| | | | ze 1000x3000 e 1000x3000 w | | ;> | | | |
| In [14]: | def | Q1 = d: Q3 = d: IQR = : UL = Q LL = Q df.loc | rtreat(df,co f[col].quant f[col].quant Q3 - Q1 3 + IQR 1 - IQR [df[col]>UL,c [df[col] <ll,c< td=""><td>ile(0.25) ile(0.75) col] = df[co</td><td></td><td></td><td></td><td></td></ll,c<> | ile(0.25) ile(0.75) col] = df[co | | | | |

```
outliertreat(df,"Driver Age")
In [15]:
In [16]: outliertreat(df,"Driver Experience")
In [17]: outliertreat(df, "Previous Accidents")
In [18]: outliertreat(df, "Annual Mileage (x1000 km)")
In [19]: outliertreat(df, "Car Manufacturing Year")
In [20]: outliertreat(df, "Car Age")
In [21]: outliertreat(df, "Insurance Premium ($)")
In [22]: plt.figure(figsize=(8,10))
          sns.boxplot(df)
          plt.show()
         2000
         1750
         1500
         1250
         1000
          750
          500
          250
               Driver AgiBriver Experiterations/Attracted Misleage/Cart 1/0/060 Union turing YeCart Atmsurance Premium ($)
```

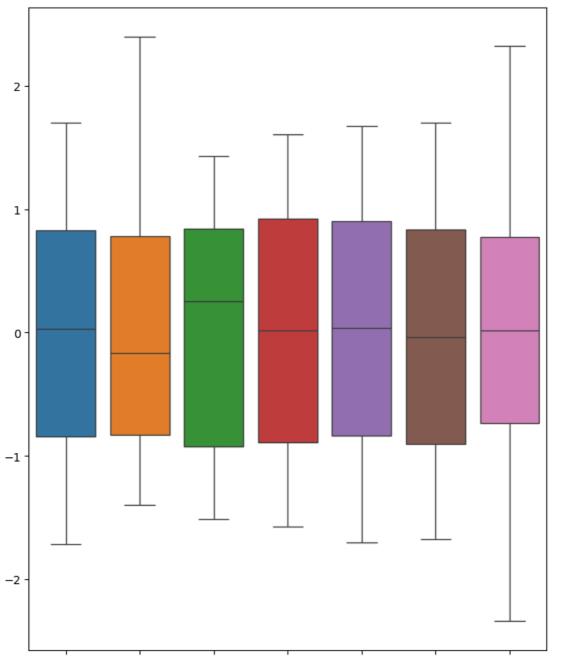
```
In [23]: from sklearn.preprocessing import StandardScaler
         SS=StandardScaler()
In [24]:
         from sklearn.model_selection import train_test_split
In [25]:
        df["Car Manufacturing Year"]=SS.fit_transform(df[["Car Manufacturing Year"]])
In [26]:
In [27]:
         df["Driver Age"]=SS.fit_transform(df[["Driver Age"]])
         df["Driver Experience"]=SS.fit_transform(df[["Driver Experience"]])
In [28]:
         df["Previous Accidents"]=SS.fit_transform(df[["Previous Accidents"]])
In [29]:
         df["Annual Mileage (x1000 km)"]=SS.fit_transform(df[["Annual Mileage (x1000 km)"]
In [30]:
In [31]: df["Car Age"]=SS.fit_transform(df[["Car Age"]])
         df["Insurance Premium ($)"]=SS.fit_transform(df[["Insurance Premium ($)"]])
In [32]:
In [33]:
         df.hist()
         plt.show()
                  Driver Age
                                      Driver Experience
                                                              Previous Accidents
         100
                                  100
                                                           100
           50
                                    0
        Annual Mileage (x11000 Carr) Manufacturing Year
                                                                  −1Car⊄ge 1
                                  100
                                                           100
         100
                                   50
                                                            50
           50
            0
                                                             0
           Insuratice Premium ($)
                                          -1
                                                0
                                                                   -1
                                                     1
         100
```

```
In [34]: plt.figure(figsize=(8,10))
    sns.boxplot(df)
    plt.show()
```

0

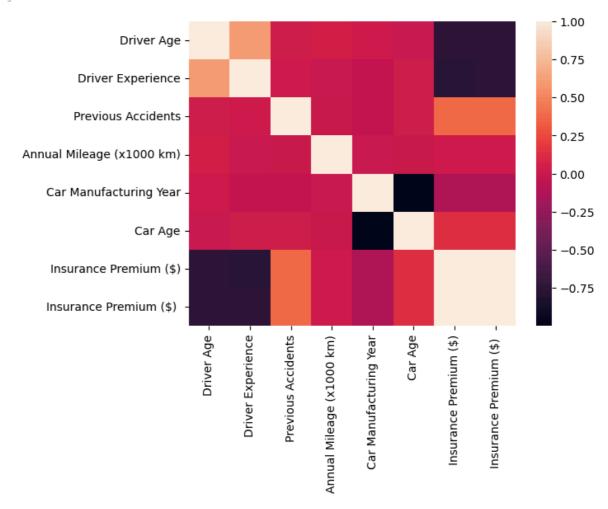
-2

0



Driver Ag@river ExperPerevieousAntruideMisleageC(ar1101060ukfan)turing Ye2arr Algnesurance Premium (\$)

```
In [35]: df.skew(numeric_only=True)
Out[35]: Driver Age
                                      -0.047599
         Driver Experience
                                       0.446676
         Previous Accidents
                                      -0.064745
         Annual Mileage (x1000 km)
                                       0.019283
         Car Manufacturing Year
                                      -0.037801
         Car Age
                                       0.037801
         Insurance Premium ($)
                                      -0.081066
         dtype: float64
In [36]: from sklearn.preprocessing import PowerTransformer
In [37]: PT=PowerTransformer()
In [38]: df[['Driver Age','Previous Accidents','Annual Mileage (x1000 km)','Insurance Pre
In [40]: sns.heatmap(df.corr(numeric_only=True))
```



In [44]: from sklearn.preprocessing import LabelEncoder
In [49]: LE=LabelEncoder()
In [52]: df['Driver Experience']=LE.fit_transform(df['Driver Experience'])
In [53]: df['Previous Accidents']=LE.fit_transform(df['Previous Accidents'])
In [54]: df.head()

| | _ | | _ | |
|-----|----|----|---|---|
| Out | [! | 54 | 1 | : |

| | Driver Age | Driver Experience | Previous Accidents | Annual Mileage (x1000 km) | Car Manufacturing Year | Car Age | Insurance Premium (\$) | In P |
|---|---------------|----------------------|-----------------------|------------------------------------|------------------------------|-----------|------------------------------|---------|
| 0 | 1.051806 | 32 | 4 | -0.204619 | -0.544209 | 0.553817 | -0.985432 | -C |
| 1 | 0.305622 | 19 | 0 | 0.699163 | 1.676265 | -1.700524 | -1.379856 | -1 |
| 2 | -0.704576 | 11 | 4 | -0.661633 | 1.193553 | -1.200460 | 0.663977 | С |
| 3 | 1.354392 | 0 | 4 | 0.248952 | -1.606175 | 1.586226 | 0.807403 | С |
| 4 | -1.196660 | 7 | 0 | -1.121210 | -0.254582 | 0.267939 | 0.305410 | С |

```
In [55]: from sklearn.model selection import train test split
In [56]: X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.25,random_state=4
In [66]: from sklearn.linear_model import LinearRegression
         from sklearn.tree import DecisionTreeRegressor
         from sklearn.neighbors import KNeighborsRegressor
         from sklearn.ensemble import RandomForestRegressor, GradientBoostingRegressor
In [67]: LR=LinearRegression()
In [68]: LR.fit(X_train,y_train)
Out[68]:
             LinearRegression
         LinearRegression()
In [70]: LR_pred = LR.predict(X_test)
In [71]: from sklearn.metrics import mean_absolute_error, mean_squared_error, r2_score
In [74]: mean_absolute_error(y_test,LR_pred)
Out[74]: 0.6982000000000009
In [75]: mean_squared_error(y_test,LR_pred)
Out[75]: 2.952095546874999
In [80]: r2_score(y_test, LR_pred)
Out[80]: 0.8980582686377323
In [85]: LR.score(X_train,y_train)*100
Out[85]: 89.06312739785875
In [86]: LR.score(X_test,y_test)
Out[86]: 0.8980582686377323
In [87]: KNR = KNeighborsRegressor(n neighbors=7)
In [88]: KNR.fit(X_train,y_train)
Out[88]:
                KNeighborsRegressor
         KNeighborsRegressor(n_neighbors=7)
In [89]: KNR pred = KNR.predict(X test)
In [90]: mean_absolute_error(y_test,KNR_pred)
```

```
Out[90]: 1.9589428571428553
In [92]: mean_squared_error(y_test,LR_pred)
Out[92]: 2.952095546874999
In [93]: r2_score(y_test, KNR_pred)
Out[93]: 0.7866936267954454
In [99]: KNR.score(X_train,y_train)*100
Out[99]: 84.46056880549351
In [100...
          KNR.score(X_test,y_test)
          0.7866936267954454
Out[100...
         RFR=RandomForestRegressor(n_estimators=100, random_state=42)
In [101...
In [102...
          RFR.fit(X_train, y_train)
Out[102...
                  RandomForestRegressor
          RandomForestRegressor(random_state=42)
          RFR_pred = RFR.predict(X_test)
In [105...
In [112...
         mean_absolute_error(y_test, RFR_pred)
Out[112... 0.800775999999993
In [113...
         mean_squared_error(y_test, RFR_pred)
Out[113... 2.3414879419999868
In [114...
         r2_score(y_test, RFR_pred)
Out[114... 0.919143763817527
In [115...
          RFR.score(X_train,y_train)*100
Out[115...
         99.04901477218021
In [116...
         RFR.score(X_test,y_test)
Out[116... 0.919143763817527
In [117...
         DTC = DecisionTreeRegressor(random_state=42)
In [120...
         DTC.fit(X_train, y_train)
```

```
Out[120...
                  DecisionTreeRegressor
          DecisionTreeRegressor(random_state=42)
         y_pred_dt = DTC.predict(X_test)
In [124...
In [127...
         mean_absolute_error(y_test, y_pred_dt)
Out[127... 1.3024000000000013
In [132...
         mean_squared_error(y_test, y_pred_dt)
Out[132... 3.692720000000007
         r2_score(y_test,y_pred_dt )
In [138...
Out[138... 0.872483033066269
In [142...
         DTC.score(X_train,y_train)*100
Out[142... 100.0
In [143... DTC.score(X_test,y_test)
Out[143... 0.872483033066269
In [145...
         GBL = GradientBoostingRegressor(random_state=42, n_estimators=100, learning_rate
In [147...
         GBL.fit(X_train, y_train)
Out[147...
                  GradientBoostingRegressor
          GradientBoostingRegressor(random_state=42)
In [155...
          gbl_pred = GBL.predict(X_test)
In [158...
         mean_squared_error(y_test, gbl_pred)
Out[158... 2.280836315268464
In [161...
         mean_absolute_error(y_test, gbl_pred)
Out[161... 0.7619309738786116
In [165...
         r2_score(y_test,gbl_pred)
Out[165... 0.9212381851330886
In [167...
         GBL.score(X_train,y_train)*100
Out[167... 98.21631826760195
In [170... GBL.score(X_test,y_test)
```

```
Out[170... 0.9212381851330886
In [175... from sklearn.model_selection import GridSearchCV, RandomizedSearchCV
In [177...
          param_grid = {
              'n_estimators': [50, 100, 200],
              'max_depth': [None, 10, 20, 30],
          }
          rf_model = RandomForestRegressor(random_state=42)
In [179...
In [181...
         grid_search = GridSearchCV(
              estimator=RandomForestRegressor(random_state=42),
              param_grid=param_grid,
In [183...
         grid_search.fit(X_train, y_train)
Out[183...
                GridSearchCV (1) ?
           ▶ estimator: RandomForestRegressor
                RandomForestRegressor
In [184...
         grid_search.best_params_
Out[184... {'max_depth': 20, 'n_estimators': 200}
In [185... Best_GS=grid_search.best_estimator_
In [186... y_pred=Best_GS.predict(X_test)
In [187... print("Best MSE:", -grid_search.best_score_)
         Best MSE: -0.9297245088699227
          best_rf_model = grid_search.best_estimator_
In [188...
          rf_pred = best_rf_model.predict(X_test)
In [189...
         rf_r2 = r2_score(y_test, rf_pred)
In [190... print("Tuned Random Forest - MSE:", "R2:", rf_r2)
         Tuned Random Forest - MSE: R2: 0.9230631762565836
In [191... pip install --upgrade gradio
```

```
Requirement already satisfied: gradio in c:\users\dell\anaconda3\lib\site-package
s (5.13.1)
Requirement already satisfied: aiofiles<24.0,>=22.0 in c:\users\dell\anaconda3\li
b\site-packages (from gradio) (23.2.1)
Requirement already satisfied: anyio<5.0,>=3.0 in c:\users\dell\anaconda3\lib\sit
e-packages (from gradio) (4.2.0)
Requirement already satisfied: fastapi<1.0,>=0.115.2 in c:\users\dell\anaconda3\l
ib\site-packages (from gradio) (0.115.6)
Requirement already satisfied: ffmpy in c:\users\dell\anaconda3\lib\site-packages
(from gradio) (0.5.0)
Requirement already satisfied: gradio-client==1.6.0 in c:\users\dell\anaconda3\li
b\site-packages (from gradio) (1.6.0)
Requirement already satisfied: httpx>=0.24.1 in c:\users\dell\anaconda3\lib\site-
packages (from gradio) (0.26.0)
Requirement already satisfied: huggingface-hub>=0.25.1 in c:\users\dell\anaconda3
\lib\site-packages (from gradio) (0.27.1)
Requirement already satisfied: jinja2<4.0 in c:\users\dell\anaconda3\lib\site-pac
kages (from gradio) (3.1.4)
Requirement already satisfied: markupsafe~=2.0 in c:\users\dell\anaconda3\lib\sit
e-packages (from gradio) (2.1.3)
Requirement already satisfied: numpy<3.0,>=1.0 in c:\users\dell\anaconda3\lib\sit
e-packages (from gradio) (1.26.4)
Requirement already satisfied: orjson~=3.0 in c:\users\dell\anaconda3\lib\site-pa
ckages (from gradio) (3.10.15)
Requirement already satisfied: packaging in c:\users\dell\anaconda3\lib\site-pack
ages (from gradio) (23.2)
Requirement already satisfied: pandas<3.0,>=1.0 in c:\users\dell\anaconda3\lib\si
te-packages (from gradio) (2.2.2)
Requirement already satisfied: pillow<12.0,>=8.0 in c:\users\dell\anaconda3\lib\s
ite-packages (from gradio) (10.3.0)
Requirement already satisfied: pydantic>=2.0 in c:\users\dell\anaconda3\lib\site-
packages (from gradio) (2.5.3)
Requirement already satisfied: pydub in c:\users\dell\anaconda3\lib\site-packages
(from gradio) (0.25.1)
Requirement already satisfied: python-multipart>=0.0.18 in c:\users\dell\anaconda
3\lib\site-packages (from gradio) (0.0.20)
Requirement already satisfied: pyyaml<7.0,>=5.0 in c:\users\dell\anaconda3\lib\si
te-packages (from gradio) (6.0.1)
Requirement already satisfied: ruff>=0.2.2 in c:\users\dell\anaconda3\lib\site-pa
ckages (from gradio) (0.9.2)
Requirement already satisfied: safehttpx<0.2.0,>=0.1.6 in c:\users\dell\anaconda3
\lib\site-packages (from gradio) (0.1.6)
Requirement already satisfied: semantic-version~=2.0 in c:\users\dell\anaconda3\l
ib\site-packages (from gradio) (2.10.0)
Requirement already satisfied: starlette<1.0,>=0.40.0 in c:\users\dell\anaconda3
\lib\site-packages (from gradio) (0.41.3)
Requirement already satisfied: tomlkit<0.14.0,>=0.12.0 in c:\users\dell\anaconda3
\lib\site-packages (from gradio) (0.12.0)
Requirement already satisfied: typer<1.0,>=0.12 in c:\users\dell\anaconda3\lib\si
te-packages (from gradio) (0.15.1)
Requirement already satisfied: typing-extensions~=4.0 in c:\users\dell\anaconda3
\lib\site-packages (from gradio) (4.11.0)
Requirement already satisfied: uvicorn>=0.14.0 in c:\users\dell\anaconda3\lib\sit
e-packages (from gradio) (0.34.0)
Requirement already satisfied: fsspec in c:\users\dell\anaconda3\lib\site-package
s (from gradio-client==1.6.0->gradio) (2024.3.1)
```

Requirement already satisfied: websockets<15.0,>=10.0 in c:\users\dell\anaconda3

Requirement already satisfied: idna>=2.8 in c:\users\dell\anaconda3\lib\site-pack

\lib\site-packages (from gradio-client==1.6.0->gradio) (11.0.3)

ages (from anyio<5.0,>=3.0->gradio) (3.7)

```
Requirement already satisfied: sniffio>=1.1 in c:\users\dell\anaconda3\lib\site-p
         ackages (from anyio<5.0,>=3.0->gradio) (1.3.0)
         Requirement already satisfied: certifi in c:\users\dell\anaconda3\lib\site-packag
         es (from httpx>=0.24.1->gradio) (2024.7.4)
         Requirement already satisfied: httpcore==1.* in c:\users\dell\anaconda3\lib\site-
         packages (from httpx>=0.24.1->gradio) (1.0.2)
         Requirement already satisfied: h11<0.15,>=0.13 in c:\users\dell\anaconda3\lib\sit
         e-packages (from httpcore==1.*->httpx>=0.24.1->gradio) (0.14.0)
         Requirement already satisfied: filelock in c:\users\dell\anaconda3\lib\site-packa
         ges (from huggingface-hub>=0.25.1->gradio) (3.13.1)
         Requirement already satisfied: requests in c:\users\dell\anaconda3\lib\site-packa
         ges (from huggingface-hub>=0.25.1->gradio) (2.32.2)
         Requirement already satisfied: tqdm>=4.42.1 in c:\users\dell\anaconda3\lib\site-p
         ackages (from huggingface-hub>=0.25.1->gradio) (4.66.4)
         Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\dell\anaconda3
         \lib\site-packages (from pandas<3.0,>=1.0->gradio) (2.9.0.post0)
         Requirement already satisfied: pytz>=2020.1 in c:\users\dell\anaconda3\lib\site-p
         ackages (from pandas<3.0,>=1.0->gradio) (2024.1)
         Requirement already satisfied: tzdata>=2022.7 in c:\users\dell\anaconda3\lib\site
         -packages (from pandas<3.0,>=1.0->gradio) (2023.3)
         Requirement already satisfied: annotated-types>=0.4.0 in c:\users\dell\anaconda3
         \lib\site-packages (from pydantic>=2.0->gradio) (0.6.0)
         Requirement already satisfied: pydantic-core==2.14.6 in c:\users\dell\anaconda3\l
         ib\site-packages (from pydantic>=2.0->gradio) (2.14.6)
         Requirement already satisfied: click>=8.0.0 in c:\users\dell\anaconda3\lib\site-p
         ackages (from typer<1.0,>=0.12->gradio) (8.1.8)
         Requirement already satisfied: shellingham>=1.3.0 in c:\users\dell\anaconda3\lib
         \site-packages (from typer<1.0,>=0.12->gradio) (1.5.4)
         Requirement already satisfied: rich>=10.11.0 in c:\users\dell\anaconda3\lib\site-
         packages (from typer<1.0,>=0.12->gradio) (13.3.5)
         Requirement already satisfied: colorama in c:\users\dell\anaconda3\lib\site-packa
         ges (from click>=8.0.0->typer<1.0,>=0.12->gradio) (0.4.6)
         Requirement already satisfied: six>=1.5 in c:\users\dell\anaconda3\lib\site-packa
         ges (from python-dateutil>=2.8.2->pandas<3.0,>=1.0->gradio) (1.16.0)
         Requirement already satisfied: markdown-it-py<3.0.0,>=2.2.0 in c:\users\dell\anac
         onda3\lib\site-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (2.2.0)
         Requirement already satisfied: pygments<3.0.0,>=2.13.0 in c:\users\dell\anaconda3
         \lib\site-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (2.15.1)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\dell\anaconda
         3\lib\site-packages (from requests->huggingface-hub>=0.25.1->gradio) (2.0.4)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\dell\anaconda3\lib
         \site-packages (from requests->huggingface-hub>=0.25.1->gradio) (2.2.2)
         Requirement already satisfied: mdurl~=0.1 in c:\users\dell\anaconda3\lib\site-pac
         kages (from markdown-it-py<3.0.0,>=2.2.0->rich>=10.11.0->typer<1.0,>=0.12->gradi
         o) (0.1.0)
         Note: you may need to restart the kernel to use updated packages.
In [192...
          import gradio as gr
          import numpy as np
In [193...
          def predict(driver_age, driver_experience, previous_accidents, annual_mileage, driver_experience, previous_accidents, annual_mileage, driver_experience
              input_data = np.array([driver_age, driver_experience, previous_accidents, an
              input data = scaler.transform(input data)
              prediction = model.predict(input_data)
              return prediction[0]
In [217...
         iface = gr.Interface(
```

fn=predict,
inputs=[

```
gr.Number(label="Driver Age"),
                 gr.Number(label="Driver Experience"),
                 gr.Number(label="Previous Accidents"),
                 gr.Number(label="Annual Mileage"),
                 gr.Number(label="Car Manufacturing Year"),
                 gr.Number(label="Car Age")
             ],
            outputs= predict(inputs)
       NameError
                                                  Traceback (most recent call last)
       Cell In[217], line 11
             1 iface = gr.Interface(
             2
                   fn=predict,
             3
                   inputs=[
             4
                       gr.Number(label="Driver Age"),
             5
                       gr.Number(label="Driver Experience"),
             6
                       gr.Number(label="Previous Accidents"),
             7
                       gr.Number(label="Annual Mileage"),
             8
                       gr.Number(label="Car Manufacturing Year"),
             9
                       gr.Number(label="Car Age")
            10
                   ],
       ---> 11
                   outputs= predict(inputs)
            12 )
       NameError: name 'inputs' is not defined
In [ ]: iface.launch()
In [ ]:
```