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2.

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⊟import plotly
 import plotly.graph_objs as go
from sklearn.preprocessing import StandardScaler
from matplotlib import pyplot as plt
from scipy import stats
import numpy as np
import pandas as pd
from sklearn.linear_model import LinearRegression
data = pd.read_csv('vehicles.csv')
X= np.array(data.loc[:, 'cyl':])
y_mpg = np.array(data.loc[:, 'mpg'])
data = data.drop(['make', 'mpg'], axis =1) #droping colums make and mpg from data so their
                                                #column names are not included in the data.columns that is called later
print(X)
xScaledData = StandardScaler()
xScaled = xScaledData.fit_transform(X)
 reg = LinearRegression().fit(xScaled, y_mpg)#between scaledX and y
print(f'Weighted Coeff (scaled X): {reg.coef_}')
print(f'Intercept: {reg.intercept_}')
temp = abs(reg.coef_)
fiveBestColIndex = temp.argsort()[-5:]
bestX = data.iloc[:, fiveBestColIndex]
print(bestX)
markersize = data['hp']/12
markercolor = y_mpg
markershape = data['am'].map({1: 'circle', 0: 'square'})
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#Make Plotly figure

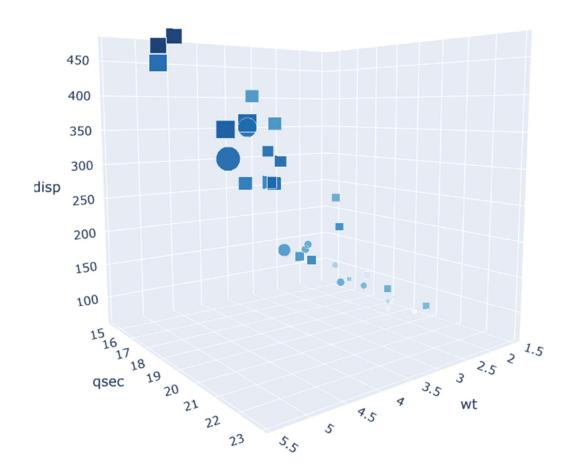
#figl = go.Scatter3d(x=data['wt'],
y=data['qsec'],
z=data['disp'],
marker=dict(size=markersize,
color=markercolor,
symbol=markershape,
opacity=0.9,
reversescale=True,
colorscale='Blues'),
line=dict (width=0.02),
mode='markers')

#Make Plot.ly Layout

#mylayout = go.Layout(scene=dict(xaxis=dict( title="wt"),
yaxis=dict( title="qsec"),
zaxis=dict(title="disp")),)

#Plot and save html

#plotly.offline.plot({"data": [figl],
"layout": mylayout},
auto_open=True,
filename=("6DPlot.html"))
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