

# insurance-cost-prediction

January 22, 2023

## 1 Insurance Cost Prediction

```
[154]: import pandas as pd
import scipy as sp
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import jinja2

%matplotlib inline
```

```
[114]: data=pd.read_csv("insurance.csv")
```

```
[115]: data.head()
```

```
[115]:
```

	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520

```
[116]: data.tail()
```

```
[116]:
```

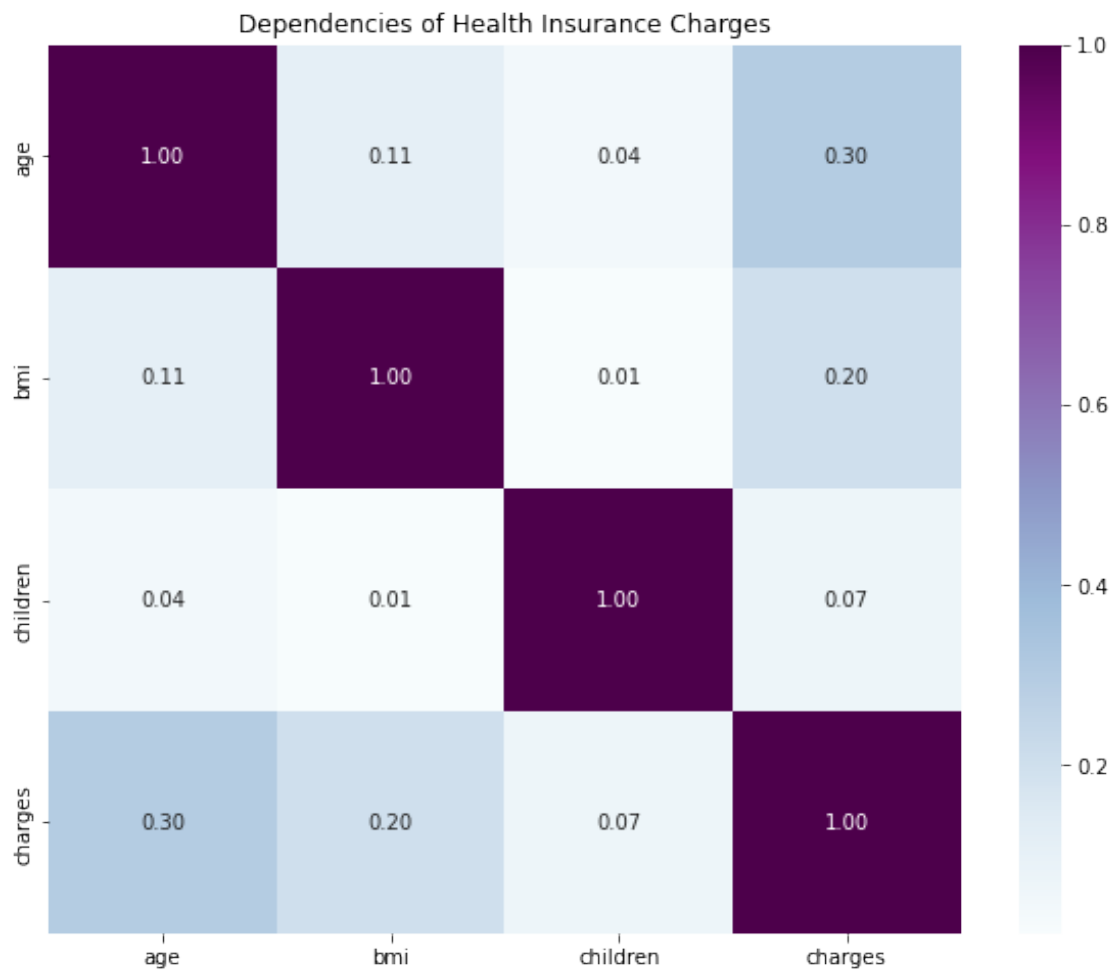
	age	sex	bmi	children	smoker	region	charges
1333	50	male	30.97	3	no	northwest	10600.5483
1334	18	female	31.92	0	no	northeast	2205.9808
1335	18	female	36.85	0	no	southeast	1629.8335
1336	21	female	25.80	0	no	southwest	2007.9450
1337	61	female	29.07	0	yes	northwest	29141.3603

```
[117]: #####
```

```
[118]: corr = data.corr()
fig, ax = plt.subplots(figsize=(10,8))
sns.heatmap(corr,cmap='BuPu',annot=True,fmt=".2f",ax=ax)
plt.title("Dependencies of Health Insurance Charges")
```

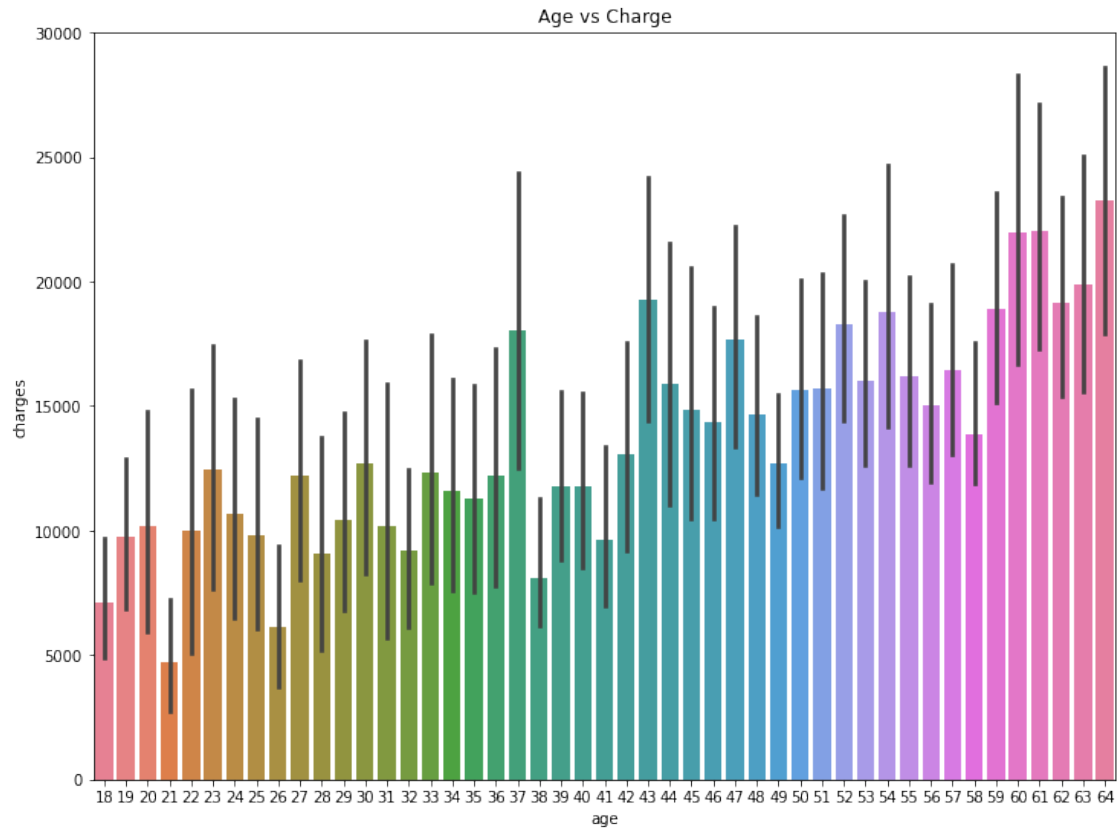
```
plt.show()
```

```
/var/folders/1t/fh0rc8r93qgfy7wd8_9_ww8c0000gn/T/ipykernel_23728/2719380420.py:1
: FutureWarning: The default value of numeric_only in DataFrame.corr is
deprecated. In a future version, it will default to False. Select only valid
columns or specify the value of numeric_only to silence this warning.
corr = data.corr()
```



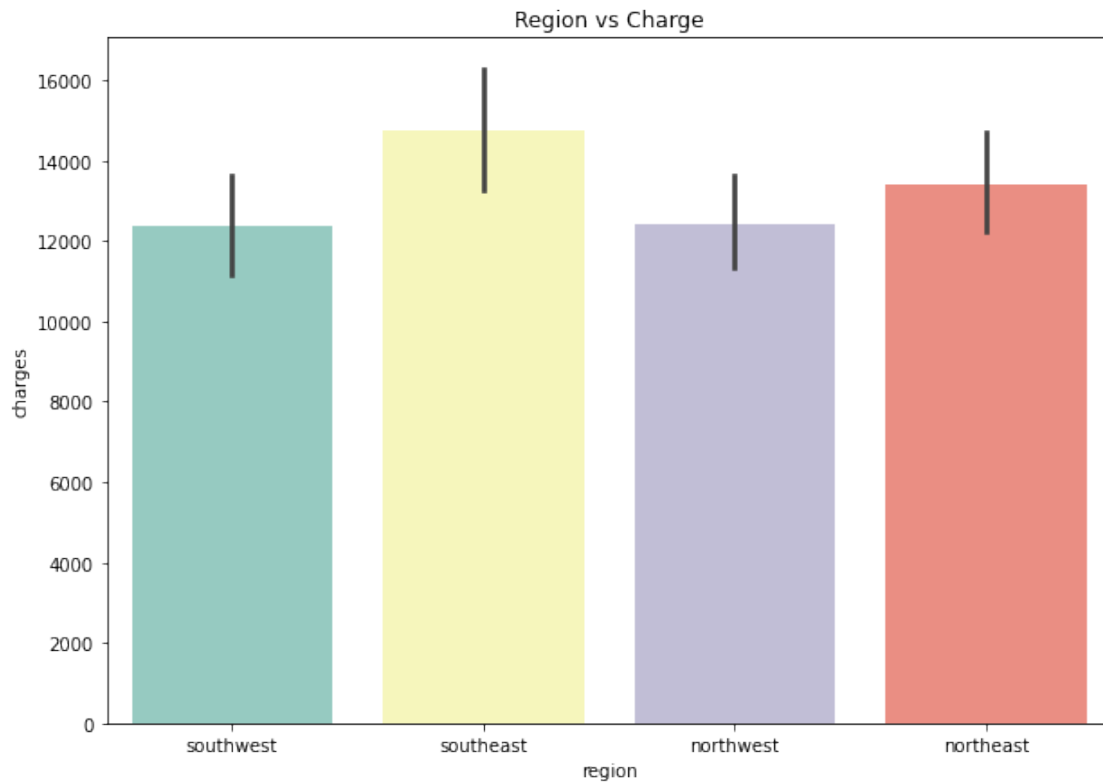
```
[119]: plt.figure(figsize=(12,9))
plt.title('Age vs Charge')
sns.barplot(x='age',y='charges',data=data,palette='husl')
```

```
[119]: <AxesSubplot: title={'center': 'Age vs Charge'}, xlabel='age', ylabel='charges'>
```



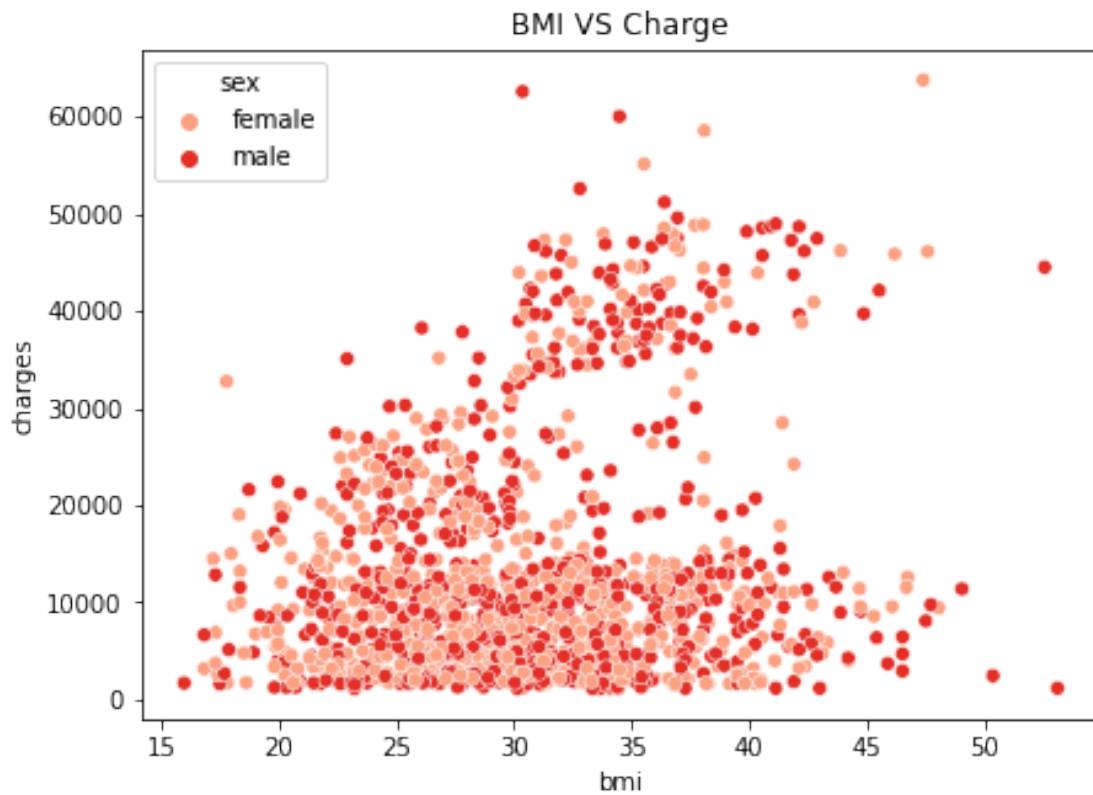
```
[120]: plt.figure(figsize=(10,7))
plt.title('Region vs Charge')
sns.barplot(x='region',y='charges',data=data,palette='Set3')
```

```
[120]: <AxesSubplot: title={'center': 'Region vs Charge'}, xlabel='region',
ylabel='charges'>
```



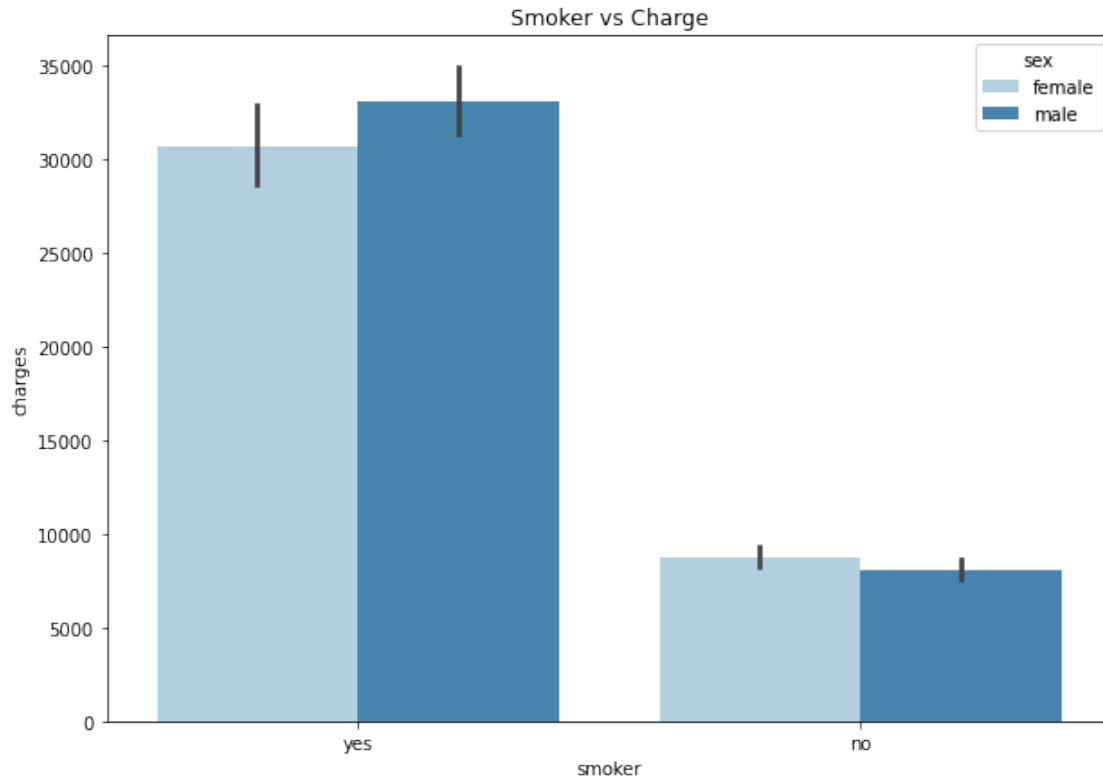
```
[121]: plt.figure(figsize=(7,5))
sns.scatterplot(x='bmi',y='charges',hue='sex',data=data,palette='Reds')
plt.title('BMI VS Charge')
```

```
[121]: Text(0.5, 1.0, 'BMI VS Charge')
```



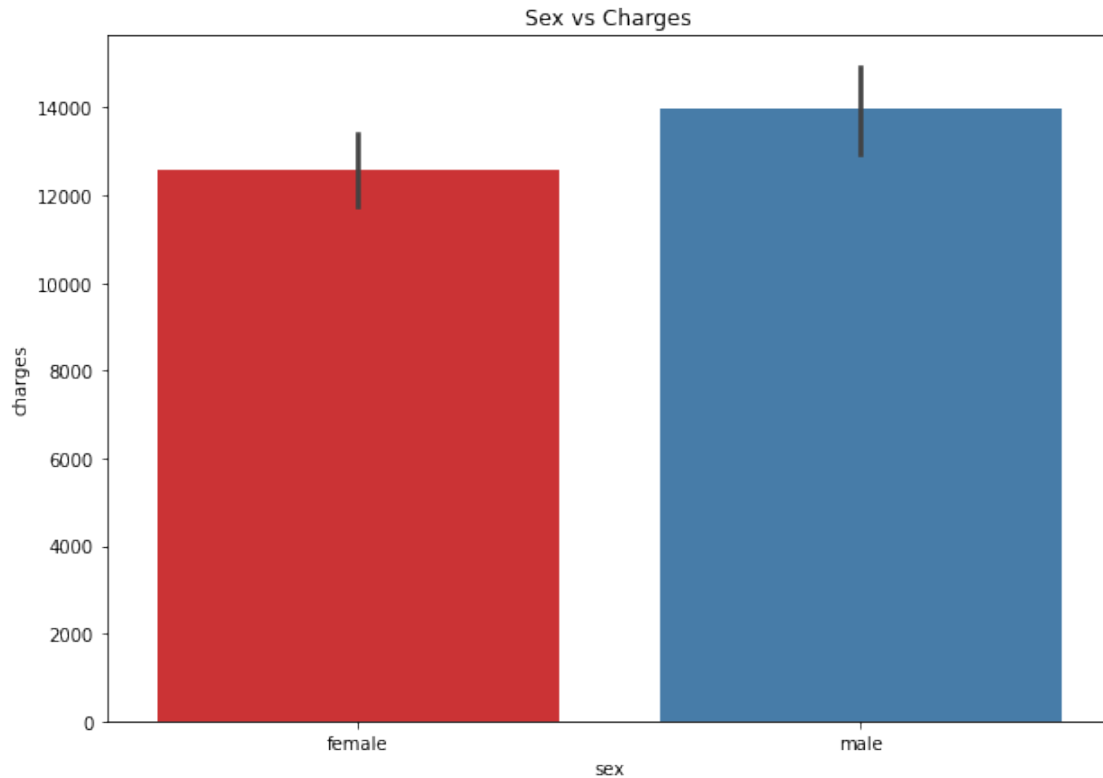
```
[122]: plt.figure(figsize=(10,7))
plt.title('Smoker vs Charge')
sns.barplot(x='smoker',y='charges',data=data,palette='Blues',hue='sex')
```

```
[122]: <AxesSubplot: title={'center': 'Smoker vs Charge'}, xlabel='smoker',
ylabel='charges'>
```



```
[123]: plt.figure(figsize=(10,7))
plt.title('Sex vs Charges')
sns.barplot(x='sex',y='charges',data=data,palette='Set1')
```

```
[123]: <AxesSubplot: title={'center': 'Sex vs Charges'}, xlabel='sex',
ylabel='charges'>
```



```
[124]: data['sex'].unique()
data['sex']=data['sex'].map({'female':0,'male':1})
data['smoker']=data['smoker'].map({'yes':1,'no':0})
data['region']=data['region'].map({'southwest':1,'southeast':2,
                                   'northwest':3,'northeast':4})
```

```
[125]: data.head()
```

```
[125]:
```

	age	sex	bmi	children	smoker	region	charges
0	19	0	27.900	0	1	1	16884.92400
1	18	1	33.770	1	0	2	1725.55230
2	28	1	33.000	3	0	2	4449.46200
3	33	1	22.705	0	0	3	21984.47061
4	32	1	28.880	0	0	3	3866.85520

```
[126]: from sklearn.preprocessing import StandardScaler
data_pre = data.copy()

tempBmi = data_pre.bmi
tempBmi = tempBmi.values.reshape(-1,1)
data_pre['bmi'] = StandardScaler().fit_transform(tempBmi)
```

```

tempAge = data_pre.age
tempAge = tempAge.values.reshape(-1,1)
data_pre['age'] = StandardScaler().fit_transform(tempAge)

tempCharges = data_pre.charges
tempCharges = tempCharges.values.reshape(-1,1)
data_pre['charges'] = StandardScaler().fit_transform(tempCharges)

data_pre.head()

```

```

[126]:      age  sex      bmi  children  smoker  region  charges
0 -1.438764    0 -0.453320         0        1        1  0.298584
1 -1.509965    1  0.509621         1        0        2 -0.953689
2 -0.797954    1  0.383307         3        0        2 -0.728675
3 -0.441948    1 -1.305531         0        0        3  0.719843
4 -0.513149    1 -0.292556         0        0        3 -0.776802

```

```

[127]: X = data_pre.drop('charges',axis=1).values
y = data_pre['charges'].values.reshape(-1,1)

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X,y,test_size=0.2,
↳random_state=42)

print('Size of X_train : ', X_train.shape)
print('Size of y_train : ', y_train.shape)
print('Size of X_test : ', X_test.shape)
print('Size of Y_test : ', y_test.shape)

```

```

Size of X_train :  (1070, 6)
Size of y_train :  (1070, 1)
Size of X_test :   (268, 6)
Size of Y_test :   (268, 1)

```

```

[128]: from sklearn.linear_model import LinearRegression
from sklearn.ensemble import RandomForestRegressor
from sklearn.tree import DecisionTreeRegressor
from sklearn.svm import SVR
import xgboost as xgb

from sklearn.metrics import r2_score, mean_squared_error, accuracy_score,
↳confusion_matrix
from sklearn.model_selection import cross_val_score, RandomizedSearchCV,
↳GridSearchCV

```



## 2 Linear Regression

```
[129]: %%time
linear_reg = LinearRegression()
linear_reg.fit(X_train, y_train)
```

CPU times: user 4.63 ms, sys: 10.5 ms, total: 15.1 ms

Wall time: 47.1 ms

```
[129]: LinearRegression()
```

```
[130]: cv_linear_reg = cross_val_score(estimator = linear_reg, X = X, y = y, cv = 10)

y_pred_linear_reg_train = linear_reg.predict(X_train)
r2_score_linear_reg_train = r2_score(y_train, y_pred_linear_reg_train)

y_pred_linear_reg_test = linear_reg.predict(X_test)
r2_score_linear_reg_test = r2_score(y_test, y_pred_linear_reg_test)

rmse_linear = (np.sqrt(mean_squared_error(y_test, y_pred_linear_reg_test)))

print('CV Linear Regression : {0:.3f}'.format(cv_linear_reg.mean()))
print('R2_score (train) : {0:.3f}'.format(r2_score_linear_reg_train))
print('R2_score (test) : {0:.3f}'.format(r2_score_linear_reg_test))
print('RMSE : {0:.3f}'.format(rmse_linear))
```

CV Linear Regression : 0.745

R2\_score (train) : 0.742

R2\_score (test) : 0.783

RMSE : 0.479

## 3 Support Vector Machine (Regression)

```
[132]: X_c = data.drop('charges',axis=1).values
y_c = data['charges'].values.reshape(-1,1)

X_train_c, X_test_c, y_train_c, y_test_c = train_test_split(X_c,y_c,test_size=0.
↪2, random_state=42)

X_train_scaled = StandardScaler().fit_transform(X_train_c)
y_train_scaled = StandardScaler().fit_transform(y_train_c)
X_test_scaled = StandardScaler().fit_transform(X_test_c)
y_test_scaled = StandardScaler().fit_transform(y_test_c)

svr = SVR()
#svr.fit(X_train_scaled, y_train_scaled.ravel())
```

```
[133]: parameters = { 'kernel' : ['rbf', 'sigmoid'],
                      'gamma' : [0.001, 0.01, 0.1, 1, 'scale'],
                      'tol' : [0.0001],
                      'C': [0.001, 0.01, 0.1, 1, 10, 100] }
svr_grid = GridSearchCV(estimator=svr, param_grid=parameters, cv=10, verbose=4,
                        ↪n_jobs=-1)
svr_grid.fit(X_train_scaled, y_train_scaled.ravel())
```

Fitting 10 folds for each of 60 candidates, totalling 600 fits

```
[133]: GridSearchCV(cv=10, estimator=SVR(), n_jobs=-1,
                  param_grid={'C': [0.001, 0.01, 0.1, 1, 10, 100],
                              'gamma': [0.001, 0.01, 0.1, 1, 'scale'],
                              'kernel': ['rbf', 'sigmoid'], 'tol': [0.0001]},
                  verbose=4)
```

```
[134]: svr = SVR(C=10, gamma=0.1, tol=0.0001)
svr.fit(X_train_scaled, y_train_scaled.ravel())
print(svr_grid.best_estimator_)
print(svr_grid.best_score_)
```

```
SVR(C=1, gamma=0.1, tol=0.0001)
0.8333384422544172
```

```
[135]: cv_svr = svr_grid.best_score_

y_pred_svr_train = svr.predict(X_train_scaled)
r2_score_svr_train = r2_score(y_train_scaled, y_pred_svr_train)

y_pred_svr_test = svr.predict(X_test_scaled)
r2_score_svr_test = r2_score(y_test_scaled, y_pred_svr_test)

rmse_svr = (np.sqrt(mean_squared_error(y_test_scaled, y_pred_svr_test)))

print('CV : {0:.3f}'.format(cv_svr.mean()))
print('R2_score (train) : {0:.3f}'.format(r2_score_svr_train))
print('R2 score (test) : {0:.3f}'.format(r2_score_svr_test))
print('RMSE : {0:.3f}'.format(rmse_svr))
```

```
CV : 0.833
R2_score (train) : 0.855
R2 score (test) : 0.874
RMSE : 0.356
```

## 4 Ridge Regressor

```
[136]: from sklearn.preprocessing import PolynomialFeatures, StandardScaler
from sklearn.pipeline import Pipeline
from sklearn.linear_model import Ridge

steps = [ ('scalar', StandardScaler()),
          ('poly', PolynomialFeatures(degree=2)),
          ('model', Ridge())]

ridge_pipe = Pipeline(steps)
```

```
[137]: parameters = { 'model__alpha': [1e-15, 1e-10, 1e-8, 1e-3, 1e-2, 1, 2, 5, 10, 20, 25, 35, 43, 55, 100], 'model__random_state' : [42]}
reg_ridge = GridSearchCV(ridge_pipe, parameters, cv=10)
reg_ridge = reg_ridge.fit(X_train, y_train.ravel())
```

```
/opt/anaconda3/lib/python3.9/site-packages/sklearn/linear_model/_ridge.py:212:
LinAlgWarning: Ill-conditioned matrix (rcond=2.25804e-19): result may not be
accurate.
```

```
return linalg.solve(A, Xy, assume_a="pos", overwrite_a=True).T
/opt/anaconda3/lib/python3.9/site-packages/sklearn/linear_model/_ridge.py:212:
LinAlgWarning: Ill-conditioned matrix (rcond=2.16901e-19): result may not be
accurate.
```

```
return linalg.solve(A, Xy, assume_a="pos", overwrite_a=True).T
```

```
[138]: reg_ridge.best_estimator_, reg_ridge.best_score_
```

```
[138]: (Pipeline(steps=[('scalar', StandardScaler()), ('poly', PolynomialFeatures()),
                      ('model', Ridge(alpha=20, random_state=42))]),
0.8267846959650346)
```

```
[139]: ridge = Ridge(alpha=20, random_state=42)
ridge.fit(X_train_scaled, y_train_scaled.ravel())
cv_ridge = reg_ridge.best_score_

y_pred_ridge_train = ridge.predict(X_train_scaled)
r2_score_ridge_train = r2_score(y_train_scaled, y_pred_ridge_train)

y_pred_ridge_test = ridge.predict(X_test_scaled)
r2_score_ridge_test = r2_score(y_test_scaled, y_pred_ridge_test)

rmse_ridge = (np.sqrt(mean_squared_error(y_test_scaled,
y_pred_linear_reg_test)))
print('CV : {0:.3f}'.format(cv_ridge.mean()))
print('R2 score (train) : {0:.3f}'.format(r2_score_ridge_train))
print('R2 score (test) : {0:.3f}'.format(r2_score_ridge_test))
```

```
print('RMSE : {0:.3f}'.format(rmse_ridge))
```

```
CV : 0.827
R2 score (train) : 0.741
R2 score (test) : 0.785
RMSE : 0.465
```

## 5 RandomForest Regressor

```
[140]: %%time
reg_rf = RandomForestRegressor()
parameters = { 'n_estimators': [600,1000,1200],
               'max_features': ["auto"],
               'max_depth': [40,50,60],
               'min_samples_split': [5,7,9],
               'min_samples_leaf': [7,10,12],
               'criterion': ['mse']}

reg_rf_gscv = GridSearchCV(estimator=reg_rf, param_grid=parameters, cv=10,
↪n_jobs=-1)
reg_rf_gscv = reg_rf_gscv.fit(X_train_scaled, y_train_scaled.ravel())
```

```
/opt/anaconda3/lib/python3.9/site-packages/sklearn/ensemble/_forest.py:400:
FutureWarning: Criterion 'mse' was deprecated in v1.0 and will be removed in
version 1.2. Use `criterion='squared_error'` which is equivalent.
  warn(
/opt/anaconda3/lib/python3.9/site-packages/sklearn/ensemble/_forest.py:400:
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/opt/anaconda3/lib/python3.9/site-packages/sklearn/ensemble/_forest.py:416:
FutureWarning: `max_features='auto'` has been deprecated in 1.1 and will be
removed in 1.3. To keep the past behaviour, explicitly set `max_features=1.0` or
remove this parameter as it is also the default value for RandomForestRegressors
and ExtraTreesRegressors.
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CPU times: user 2.16 s, sys: 545 ms, total: 2.7 s
Wall time: 2min 49s

```

```
[141]: reg_rf_gscv.best_score_, reg_rf_gscv.best_estimator_
```

```
[141]: (0.8489222053869275,
RandomForestRegressor(criterion='mse', max_depth=50, max_features='auto',
                        min_samples_leaf=12, min_samples_split=7,
                        n_estimators=600))
```

```
[142]: rf_reg = RandomForestRegressor(max_depth=50, min_samples_leaf=12,
↳ min_samples_split=7,
                        n_estimators=1200)
rf_reg.fit(X_train_scaled, y_train_scaled.ravel())
```

```
[142]: RandomForestRegressor(max_depth=50, min_samples_leaf=12, min_samples_split=7,
                        n_estimators=1200)
```

```
[143]: cv_rf = reg_rf_gscv.best_score_

y_pred_rf_train = rf_reg.predict(X_train_scaled)
r2_score_rf_train = r2_score(y_train, y_pred_rf_train)

y_pred_rf_test = rf_reg.predict(X_test_scaled)
r2_score_rf_test = r2_score(y_test_scaled, y_pred_rf_test)
```

```

rmse_rf = np.sqrt(mean_squared_error(y_test_scaled, y_pred_rf_test))

print('CV : {0:.3f}'.format(cv_rf.mean()))
print('R2 score (train) : {0:.3f}'.format(r2_score_rf_train))
print('R2 score (test) : {0:.3f}'.format(r2_score_rf_test))
print('RMSE : {0:.3f}'.format(rmse_rf))

```

```

CV : 0.849
R2 score (train) : 0.885
R2 score (test) : 0.880
RMSE : 0.346

```

```

[144]: models = [('Linear Regression', rmse_linear, r2_score_linear_reg_train,
    ↪r2_score_linear_reg_test, cv_linear_reg.mean()),
    ('Ridge Regression', rmse_ridge, r2_score_ridge_train,
    ↪r2_score_ridge_test, cv_ridge.mean()),
    ('Support Vector Regression', rmse_svr, r2_score_svr_train,
    ↪r2_score_svr_test, cv_svr.mean()),
    ('Random Forest Regression', rmse_rf, r2_score_rf_train,
    ↪r2_score_rf_test, cv_rf.mean())
    ]

```

```

[145]: predict = pd.DataFrame(data = models, columns=['Model', 'RMSE',
    ↪'R2_Score(training)', 'R2_Score(test)', 'Cross-Validation'])
predict

```

```

[145]:

```

	Model	RMSE	R2_Score(training)	R2_Score(test)	\
0	Linear Regression	0.479088	0.741705	0.783346	
1	Ridge Regression	0.464576	0.741445	0.784527	
2	Support Vector Regression	0.355584	0.854983	0.873560	
3	Random Forest Regression	0.346316	0.884638	0.880065	

```

Cross-Validation
0      0.744805
1      0.826785
2      0.833338
3      0.848922

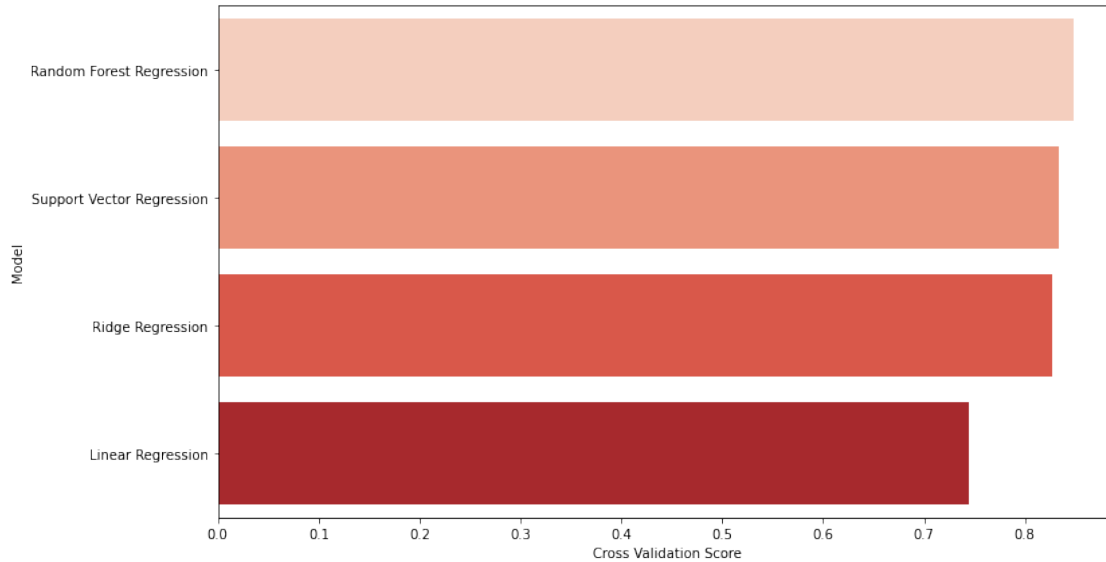
```

```

[146]: plt.figure(figsize=(12,7))
predict.sort_values(by=['Cross-Validation'], ascending=False, inplace=True)

sns.barplot(x='Cross-Validation', y='Model', data = predict, palette='Reds')
plt.xlabel('Cross Validation Score')
plt.ylabel('Model')
plt.show()

```



```
[CV 4/10] END C=0.001, gamma=0.001, kernel=rbf, tol=0.0001;; score=-0.230 total
time= 0.1s
[CV 4/10] END C=0.001, gamma=0.001, kernel=sigmoid, tol=0.0001;; score=-0.231
total time= 0.0s
[CV 9/10] END C=0.001, gamma=0.001, kernel=sigmoid, tol=0.0001;; score=-0.069
total time= 0.0s
[CV 8/10] END C=0.001, gamma=0.01, kernel=rbf, tol=0.0001;; score=-0.068 total
time= 0.0s
[CV 3/10] END C=0.001, gamma=0.01, kernel=sigmoid, tol=0.0001;; score=-0.076
total time= 0.0s
[CV 3/10] END C=0.001, gamma=0.1, kernel=rbf, tol=0.0001;; score=-0.019 total
time= 0.1s
[CV 3/10] END C=0.001, gamma=0.1, kernel=sigmoid, tol=0.0001;; score=0.013 total
time= 0.1s
[CV 4/10] END C=0.001, gamma=0.1, kernel=sigmoid, tol=0.0001;; score=-0.141
total time= 0.1s
[CV 1/10] END C=0.001, gamma=1, kernel=sigmoid, tol=0.0001;; score=0.092 total
time= 0.1s
[CV 2/10] END C=0.001, gamma=1, kernel=sigmoid, tol=0.0001;; score=0.132 total
time= 0.1s
[CV 1/10] END C=0.01, gamma=0.001, kernel=rbf, tol=0.0001;; score=-0.108 total
time= 0.0s
[CV 2/10] END C=0.01, gamma=0.001, kernel=rbf, tol=0.0001;; score=-0.070 total
time= 0.1s
[CV 3/10] END C=0.01, gamma=0.001, kernel=rbf, tol=0.0001;; score=-0.065 total
time= 0.1s
[CV 4/10] END C=0.01, gamma=0.001, kernel=rbf, tol=0.0001;; score=-0.212 total
time= 0.1s
[CV 3/10] END C=0.01, gamma=0.01, kernel=sigmoid, tol=0.0001;; score=0.020 total
```

```

time= 0.0s
[CV 4/10] END C=0.01, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=-0.135
total time= 0.0s
[CV 5/10] END C=0.01, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.037 total
time= 0.0s
[CV 6/10] END C=0.01, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.017 total
time= 0.0s
[CV 7/10] END C=0.01, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=0.387 total
time= 0.0s
[CV 8/10] END C=0.01, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=0.447 total
time= 0.0s
[CV 9/10] END C=0.01, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=0.495 total
time= 0.0s
[CV 10/10] END C=0.01, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=0.471 total
time= 0.0s
[CV 9/10] END C=0.01, gamma=scale, kernel=rbf, tol=0.0001;, score=0.331 total
time= 0.0s
[CV 10/10] END C=0.01, gamma=scale, kernel=rbf, tol=0.0001;, score=0.334 total
time= 0.0s
[CV 1/10] END C=0.01, gamma=scale, kernel=sigmoid, tol=0.0001;, score=0.465
total time= 0.0s
[CV 2/10] END C=0.01, gamma=scale, kernel=sigmoid, tol=0.0001;, score=0.477
total time= 0.0s
[CV 5/10] END C=0.1, gamma=0.01, kernel=rbf, tol=0.0001;, score=0.564 total
time= 0.0s
[CV 6/10] END C=0.1, gamma=0.01, kernel=rbf, tol=0.0001;, score=0.578 total
time= 0.0s
[CV 7/10] END C=0.1, gamma=0.01, kernel=rbf, tol=0.0001;, score=0.477 total
time= 0.0s
[CV 8/10] END C=0.1, gamma=0.01, kernel=rbf, tol=0.0001;, score=0.532 total
time= 0.0s
[CV 7/10] END C=0.1, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.404 total
time= 0.0s
[CV 8/10] END C=0.1, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.465 total
time= 0.0s
[CV 9/10] END C=0.1, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.513 total
time= 0.0s
[CV 10/10] END C=0.1, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.486 total
time= 0.0s
[CV 3/10] END C=0.1, gamma=1, kernel=sigmoid, tol=0.0001;, score=-35.818 total
time= 0.1s
[CV 4/10] END C=0.1, gamma=1, kernel=sigmoid, tol=0.0001;, score=-24.297 total
time= 0.1s
[CV 5/10] END C=0.1, gamma=1, kernel=sigmoid, tol=0.0001;, score=-38.101 total
time= 0.1s
[CV 6/10] END C=0.1, gamma=1, kernel=sigmoid, tol=0.0001;, score=-58.865 total
time= 0.1s
[CV 5/10] END C=1, gamma=0.01, kernel=rbf, tol=0.0001;, score=0.801 total time=

```



0.0s  
 [CV 6/10] END C=1, gamma=0.01, kernel=rbf, tol=0.0001;; score=0.712 total time=0.0s  
 [CV 7/10] END C=1, gamma=0.01, kernel=rbf, tol=0.0001;; score=0.668 total time=0.0s  
 [CV 8/10] END C=1, gamma=0.01, kernel=rbf, tol=0.0001;; score=0.764 total time=0.0s  
 [CV 1/10] END C=1, gamma=1, kernel=rbf, tol=0.0001;; score=0.815 total time=0.1s  
 [CV 2/10] END C=1, gamma=1, kernel=rbf, tol=0.0001;; score=0.700 total time=0.1s  
 [CV 3/10] END C=1, gamma=1, kernel=rbf, tol=0.0001;; score=0.851 total time=0.1s  
 [CV 4/10] END C=1, gamma=1, kernel=rbf, tol=0.0001;; score=0.820 total time=0.1s  
 [CV 9/10] END C=1, gamma=scale, kernel=rbf, tol=0.0001;; score=0.869 total time=0.1s  
 [CV 10/10] END C=1, gamma=scale, kernel=rbf, tol=0.0001;; score=0.850 total time= 0.1s  
 [CV 1/10] END C=1, gamma=scale, kernel=sigmoid, tol=0.0001;; score=-33.260 total time= 0.1s  
 [CV 2/10] END C=1, gamma=scale, kernel=sigmoid, tol=0.0001;; score=-22.168 total time= 0.1s  
 [CV 9/10] END C=10, gamma=0.01, kernel=rbf, tol=0.0001;; score=0.865 total time=0.0s  
 [CV 10/10] END C=10, gamma=0.01, kernel=rbf, tol=0.0001;; score=0.852 total time= 0.0s  
 [CV 1/10] END C=10, gamma=0.01, kernel=sigmoid, tol=0.0001;; score=0.680 total time= 0.0s  
 [CV 2/10] END C=10, gamma=0.01, kernel=sigmoid, tol=0.0001;; score=0.674 total time= 0.0s  
 [CV 5/10] END C=10, gamma=1, kernel=rbf, tol=0.0001;; score=0.636 total time=0.1s  
 [CV 6/10] END C=10, gamma=1, kernel=rbf, tol=0.0001;; score=0.519 total time=0.1s  
 [CV 7/10] END C=10, gamma=1, kernel=rbf, tol=0.0001;; score=0.706 total time=0.1s  
 [CV 8/10] END C=10, gamma=1, kernel=rbf, tol=0.0001;; score=0.616 total time=0.1s  
 [CV 9/10] END C=10, gamma=scale, kernel=rbf, tol=0.0001;; score=0.868 total time= 0.1s  
 [CV 10/10] END C=10, gamma=scale, kernel=rbf, tol=0.0001;; score=0.835 total time= 0.1s  
 [CV 1/10] END C=10, gamma=scale, kernel=sigmoid, tol=0.0001;; score=-3527.503 total time= 0.1s  
 [CV 2/10] END C=10, gamma=scale, kernel=sigmoid, tol=0.0001;; score=-2289.126 total time= 0.1s  
 [CV 7/10] END C=100, gamma=0.01, kernel=sigmoid, tol=0.0001;; score=0.345 total

```

time= 0.1s
[CV 8/10] END C=100, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.549 total
time= 0.1s
[CV 9/10] END C=100, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.628 total
time= 0.1s
[CV 10/10] END C=100, gamma=0.01, kernel=sigmoid, tol=0.0001;, score=0.694 total
time= 0.1s
[CV 3/10] END C=100, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=-19581.662
total time= 0.1s
[CV 4/10] END C=100, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=-20685.307
total time= 0.1s
[CV 5/10] END C=100, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=-12840.620
total time= 0.1s
[CV 6/10] END C=100, gamma=0.1, kernel=sigmoid, tol=0.0001;, score=-38988.753
total time= 0.1s
[CV 9/10] END C=100, gamma=1, kernel=rbf, tol=0.0001;, score=0.611 total time=
0.3s
[CV 10/10] END C=100, gamma=1, kernel=rbf, tol=0.0001;, score=0.283 total time=
0.4s
[CV 1/10] END C=100, gamma=1, kernel=sigmoid, tol=0.0001;, score=-39503949.902
total time= 0.1s
[CV 2/10] END C=100, gamma=1, kernel=sigmoid, tol=0.0001;, score=-36204179.378
total time= 0.1s
[CV 9/10] END C=100, gamma=scale, kernel=rbf, tol=0.0001;, score=0.803 total
time= 0.6s
[CV 10/10] END C=100, gamma=scale, kernel=rbf, tol=0.0001;, score=0.747 total
time= 0.8s
[CV 1/10] END C=100, gamma=scale, kernel=sigmoid, tol=0.0001;, score=-242601.714
total time= 0.1s
[CV 2/10] END C=100, gamma=scale, kernel=sigmoid, tol=0.0001;, score=-200978.478
total time= 0.1s

```

```
[ ]: #####
```

```

[55]: def map_smoking(column):
        mapped=[]

        for row in column:

            if row=="yes":
                mapped.append(1)
            else:
                mapped.append(0)

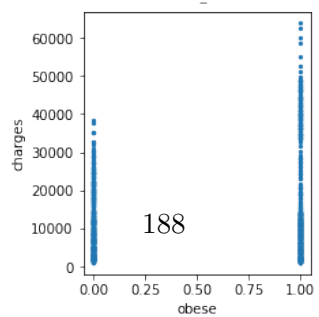
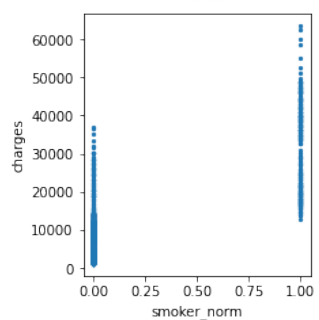
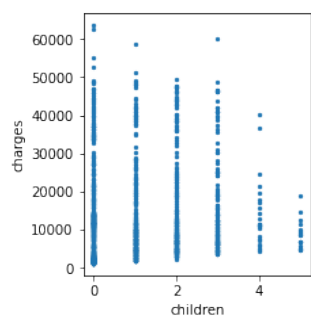
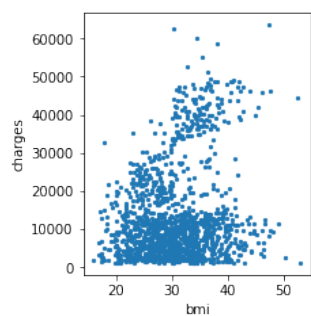
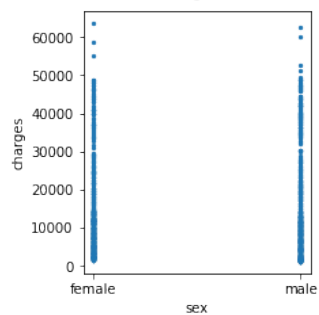
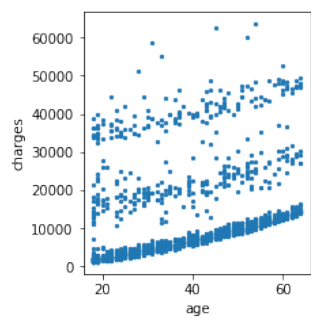
        return mapped
data["smoker_norm"]=map_smoking(data["smoker"])

```

```
[57]: nonnum_cols=[col for col in data.select_dtypes(include=["object"])]
```

```
[58]: def map_obese(column):  
    mapped=[]  
    for row in column:  
        if row>30:  
            mapped.append(1)  
        else:  
            mapped.append(0)  
    return mapped  
data["obese"]=map_obese(data["bmi"])
```

```
[60]: colnum=len(data.columns)-3  
fig,ax=plt.subplots(colnum,1,figsize=(3,25))  
ax[0].set_ylabel("charges")  
p_vals={}  
for ind,col in enumerate([i for i in data.columns if i not in_  
    ↪ ["smoker","region","charges","sex_norm"]]):  
  
    ax[ind].scatter(data[col],data.charges,s=5)  
    ax[ind].set_xlabel(col)  
    ax[ind].set_ylabel("charges")  
plt.show()
```

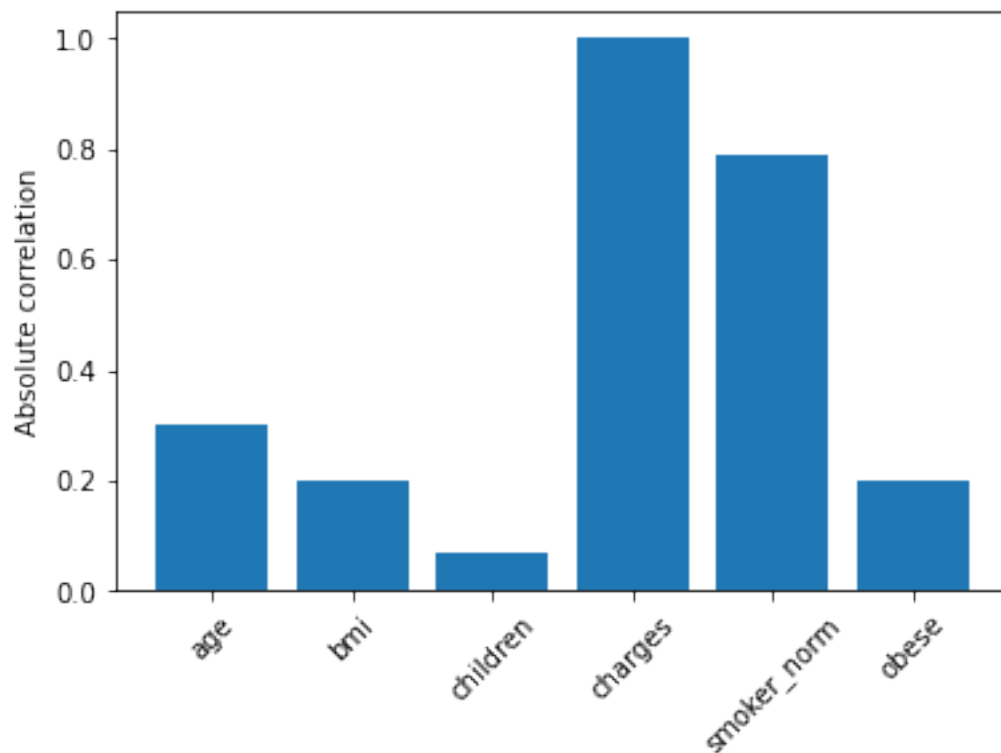


```
[66]: corr_vals=[]
collabel=[]
for col in [i for i in data.columns if i not in nonnum_cols]:

    p_val=sp.stats.pearsonr(data[col],data["charges"])
    corr_vals.append(np.abs(p_val[0]))
    print(col," : ",np.abs(p_val[0]))
    collabel.append(col)
plt.bar(range(1,len(corr_vals)+1),corr_vals)
plt.xticks(range(1,len(corr_vals)+1),collabel,rotation=45)
plt.ylabel("Absolute correlation")
```

```
age : 0.2990081933306476
bmi : 0.19834096883362887
children : 0.06799822684790481
charges : 1.0
smoker_norm : 0.7872514304984773
obese : 0.1996832219958824
```

```
[66]: Text(0, 0.5, 'Absolute correlation')
```



```
[5]: data.shape
```

```
[5]: (1338, 7)
```

```
[6]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1338 entries, 0 to 1337
Data columns (total 7 columns):
 #   Column      Non-Null Count  Dtype
---  -
 0   age         1338 non-null   int64
 1   sex         1338 non-null   object
 2   bmi         1338 non-null   float64
 3   children    1338 non-null   int64
 4   smoker      1338 non-null   object
 5   region      1338 non-null   object
 6   charges     1338 non-null   float64
dtypes: float64(2), int64(2), object(3)
memory usage: 73.3+ KB
```

```
[7]: data.isnull().sum()
```

```
[7]: age         0
sex           0
bmi           0
children      0
smoker        0
region        0
charges       0
dtype: int64
```

```
[8]: data.describe(include='all')
```

```
[8]:
```

	age	sex	bmi	children	smoker	region \
count	1338.000000	1338	1338.000000	1338.000000	1338	1338
unique	NaN	2	NaN	NaN	2	4
top	NaN	male	NaN	NaN	no	southeast
freq	NaN	676	NaN	NaN	1064	364
mean	39.207025	NaN	30.663397	1.094918	NaN	NaN
std	14.049960	NaN	6.098187	1.205493	NaN	NaN
min	18.000000	NaN	15.960000	0.000000	NaN	NaN
25%	27.000000	NaN	26.296250	0.000000	NaN	NaN
50%	39.000000	NaN	30.400000	1.000000	NaN	NaN
75%	51.000000	NaN	34.693750	2.000000	NaN	NaN
max	64.000000	NaN	53.130000	5.000000	NaN	NaN

```

          charges
count    1338.000000
unique           NaN
top           NaN
freq           NaN
mean     13270.422265
std      12110.011237
min       1121.873900
25%       4740.287150
50%       9382.033000
75%      16639.912515
max       63770.428010

```

```

[9]: data['sex'].unique()
data['sex']=data['sex'].map({'female':0,'male':1})
data['smoker']=data['smoker'].map({'yes':1,'no':0})
data['region']=data['region'].map({'southwest':1,'southeast':2,
                                   'northwest':3,'northeast':4})

```

```

[10]: data.head()

```

```

[10]:   age  sex    bmi  children  smoker  region    charges
0   19   0  27.900         0        1        1  16884.92400
1   18   1  33.770         1        0        2   1725.55230
2   28   1  33.000         3        0        2   4449.46200
3   33   1  22.705         0        0        3  21984.47061
4   32   1  28.880         0        0        3   3866.85520

```

```

[11]: data.columns

```

```

[11]: Index(['age', 'sex', 'bmi', 'children', 'smoker', 'region', 'charges'],
          dtype='object')

```

```

[12]: X = data.drop(['charges'],axis=1)
      y = data['charges']

```

```

[13]: from sklearn.model_selection import train_test_split
      X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.
      ↪2,random_state=42)

```

```

[14]: from sklearn.linear_model import LinearRegression
      from sklearn.svm import SVR
      from sklearn.ensemble import RandomForestRegressor
      from sklearn.ensemble import GradientBoostingRegressor

```

```

[15]: lr = LinearRegression()
      lr.fit(X_train,y_train)

```

```

svm = SVR()
svm.fit(X_train,y_train)
rf = RandomForestRegressor()
rf.fit(X_train,y_train)
gr = GradientBoostingRegressor()
gr.fit(X_train,y_train)

```

```
[15]: GradientBoostingRegressor()
```

```

[16]: y_pred1 = lr.predict(X_test)
y_pred2 = svm.predict(X_test)
y_pred3 = rf.predict(X_test)
y_pred4 = gr.predict(X_test)

df1 = pd.DataFrame({'Actual':y_test,'Lr':y_pred1,
                    'svm':y_pred2,'rf':y_pred3,'gr':y_pred4})

```

```
[17]: df1
```

```

[17]:
      Actual      Lr      svm      rf      gr
764  9095.06825  8924.407244  9548.261584  10764.304112  11001.128629
887   5272.17580   7116.295018  9492.515425   5044.084481   5840.174656
890  29330.98315  36909.013521  9648.758701  28390.283553  28001.980112
1293  9301.89355   9507.874691  9555.044136  10355.942110   9745.291602
259  33750.29180  27013.350008  9420.421978  34824.875160  33639.100981
...
109  47055.53210  39116.968669  9648.902852  47316.128747  45431.423211
575  12222.89830  11814.555568  9625.431547  12336.706749  12465.025294
535   6067.12675   7638.107736  9504.168517   6446.020016   6974.336525
543  63770.42801  40959.081722  9605.004594  46858.213674  47862.047791
846   9872.70100  12258.228529  9590.987268   9767.926838  10289.655388

```

[268 rows x 5 columns]

```
[18]: import matplotlib.pyplot as plt
```

```

[19]: plt.subplot(221)
plt.plot(df1['Actual'].iloc[0:11],label='Actual')
plt.plot(df1['Lr'].iloc[0:11],label="Lr")
plt.legend()

plt.subplot(222)
plt.plot(df1['Actual'].iloc[0:11],label='Actual')
plt.plot(df1['svm'].iloc[0:11],label="svr")
plt.legend()

plt.subplot(223)

```



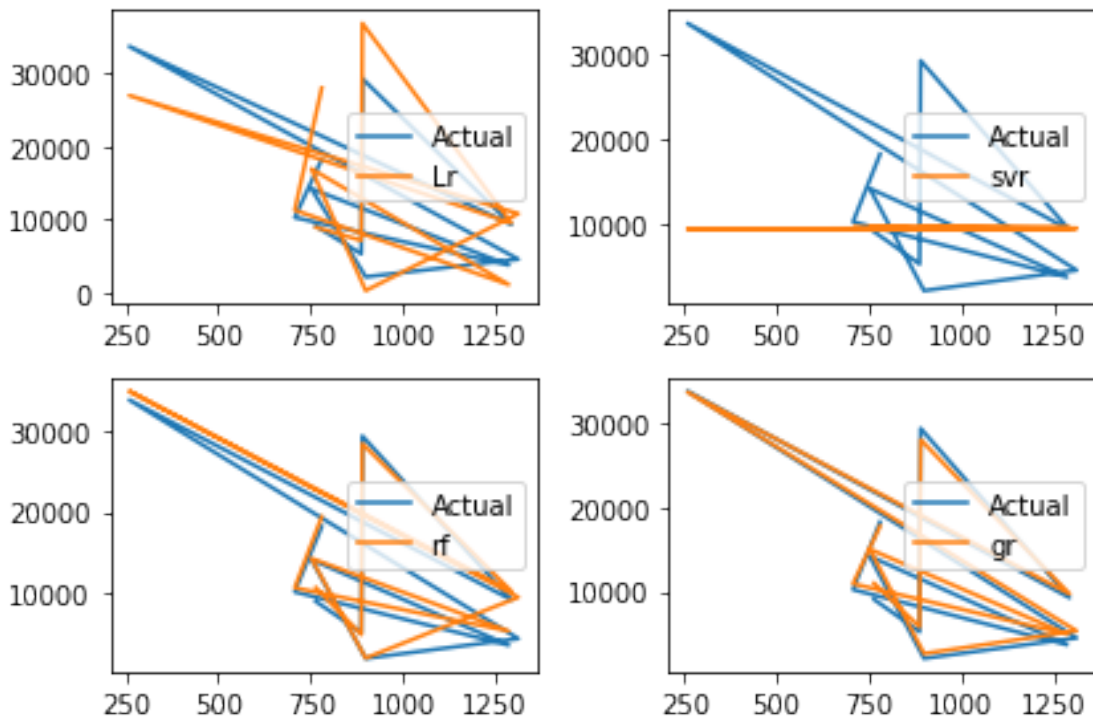
```
plt.plot(df1['Actual'].iloc[0:11],label='Actual')
plt.plot(df1['rf'].iloc[0:11],label="rf")
plt.legend()

plt.subplot(224)
plt.plot(df1['Actual'].iloc[0:11],label='Actual')
plt.plot(df1['gr'].iloc[0:11],label="gr")

plt.tight_layout()

plt.legend()
```

[19]: <matplotlib.legend.Legend at 0x7f85b8a508b0>



[20]: `from sklearn import metrics`

[21]: `score1 = metrics.r2_score(y_test,y_pred1)`  
`score2 = metrics.r2_score(y_test,y_pred2)`  
`score3 = metrics.r2_score(y_test,y_pred3)`  
`score4 = metrics.r2_score(y_test,y_pred4)`

[22]: `print(score1,score2,score3,score4)`

0.783346310736454 -0.07229762787861826 0.8669599610887622 0.8779726251291786

```
[23]: s1 = metrics.mean_absolute_error(y_test,y_pred1)
      s2 = metrics.mean_absolute_error(y_test,y_pred2)
      s3 = metrics.mean_absolute_error(y_test,y_pred3)
      s4 = metrics.mean_absolute_error(y_test,y_pred4)
```

```
[24]: print(s1,s2,s3,s4)
```

4186.508898366431 8592.428727899724 2476.3392581776475 2447.9515580545844

```
[25]: data = {'age' : 40,
             'sex' : 1,
             'bmi' : 40.30,
             'children' : 4,
             'smoker' : 1,
             'region' : 2}
```

```
[26]: df = pd.DataFrame(data,index=[0])
      df
```

```
[26]:   age  sex  bmi  children  smoker  region
      0   40   1  40.3         4       1       2
```

```
[27]: new_pred = gr.predict(df)
      print("Medical Insurance cost for New Customer is : ",new_pred[0])
```

Medical Insurance cost for New Customer is : 43013.23345490828

```
[28]: gr = GradientBoostingRegressor()
      gr.fit(X,y)
```

```
[28]: GradientBoostingRegressor()
```

```
[29]: new_pred = gr.predict(df)
      print("Medical Insurance cost for New Customer is : ",new_pred[0])
```

Medical Insurance cost for New Customer is : 42148.36188800322

```
[30]: import joblib
```

```
[31]: joblib.dump(gr,'model_joblib_test')
```

```
[31]: ['model_joblib_test']
```

```
[32]: model = joblib.load('model_joblib_test')
```

```
[33]: model.predict([[40,1,40.3,4,1,2]])
```

```
/opt/anaconda3/lib/python3.9/site-packages/sklearn/base.py:450: UserWarning: X
does not have valid feature names, but GradientBoostingRegressor was fitted with
feature names
```

```
warnings.warn(
```

```
[33]: array([42148.361888])
```

```
[34]: from tkinter import *
```

```
[35]: import joblib
```

```
[153]: def show_entry():

    p1 = float(e1.get())
    p2 = float(e2.get())
    p3 = float(e3.get())
    p4 = float(e4.get())
    p5 = float(e5.get())
    p6 = float(e6.get())

    model = joblib.load('model_joblib_test')
    result = model.predict([[p1,p2,p3,p4,p5,p6]])

    Label(master, text = "Insurance Cost").grid(row=7)
    Label(master, text=result).grid(row=8)

master =Tk()
master.title("Insurance Cost Prediction")
label = Label(master,text = "Insurance Cost Prediction",bg = "black",
               fg = "white").grid(row=0,columnspan=2)

Label(master,text = "Enter Your Age").grid(row=1)
Label(master,text = "Male Or Female [1/0]").grid(row=2)
Label(master,text = "Enter Your BMI Value").grid(row=3)
Label(master,text = "Enter Number of Children").grid(row=4)
Label(master,text = "Smoker Yes/No [1/0]").grid(row=5)
Label(master,text = "Region [1-4]").grid(row=6)

e1 = Entry(master)
e2 = Entry(master)
e3 = Entry(master)
e4 = Entry(master)
e5 = Entry(master)
e6 = Entry(master)
```

```
e1.grid(row=1,column=1)
e2.grid(row=2,column=1)
e3.grid(row=3,column=1)
e4.grid(row=4,column=1)
e5.grid(row=5,column=1)
e6.grid(row=6,column=1)
```

```
Button(master,text="Predict",command=show_entry).grid()
```

```
mainloop()
```

```
/opt/anaconda3/lib/python3.9/site-packages/sklearn/base.py:450: UserWarning: X
does not have valid feature names, but GradientBoostingRegressor was fitted with
feature names
```

```
warnings.warn(
```

```
[ ]:
```