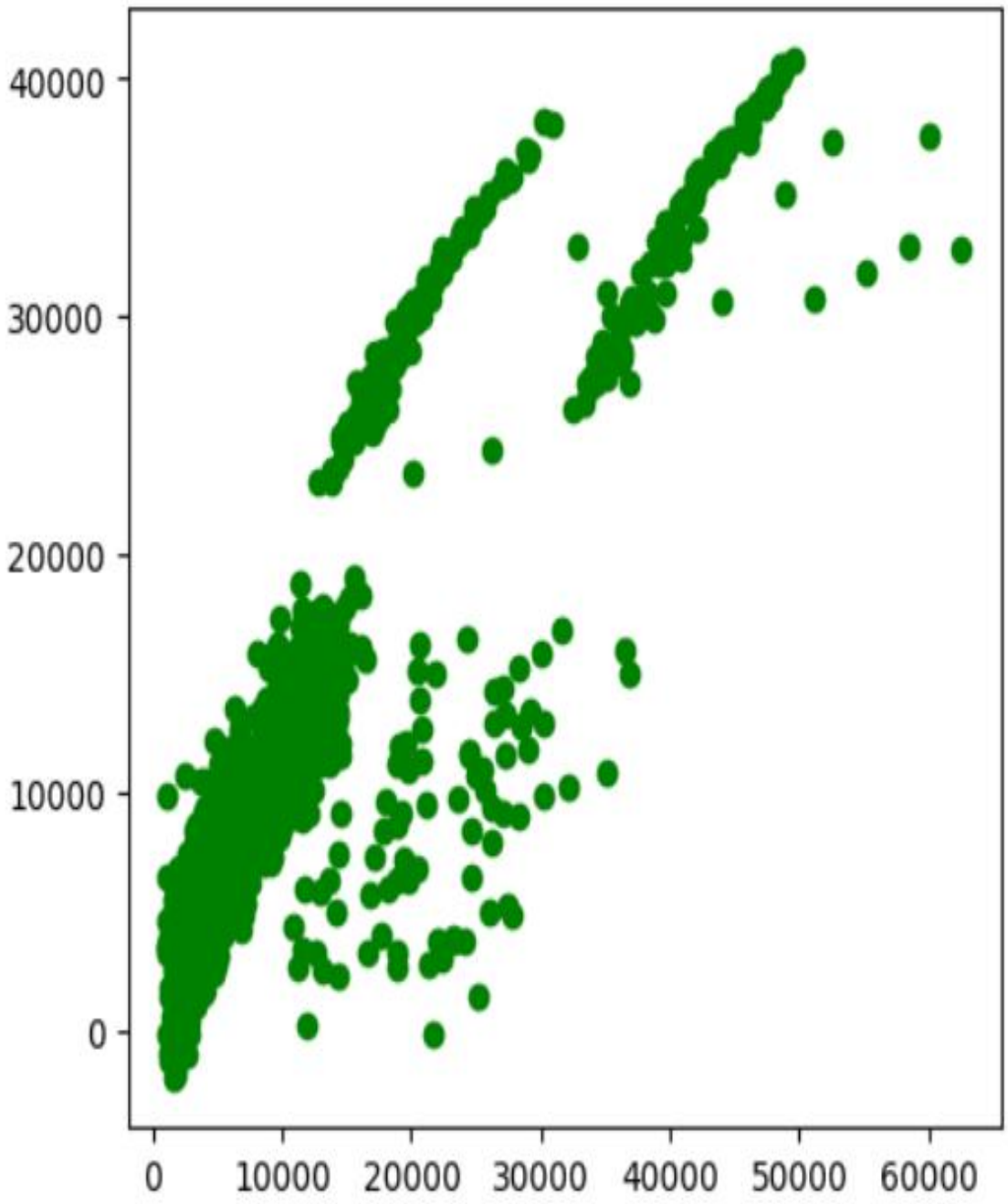
RESULTS

DATA VISUALIZATION:



COEFFICIENTS

	feature	coefficient
1	cat__smoker_yes	23651.128856
4	cat__region_southwest	-809.799354
3	cat__region_southeast	-657.864297
7	num__children	425.278784
2	cat__region_northwest	-370.677326
6	num__bmi	337.092552
5	num__age	256.975706
0	cat__sex_male	-18.591692

ACCURACY based on R2,MSE,RMSE,MAE metrices:

```
=== Training Performance ===
R²      : 0.7417
MSE     : 37,277,681.70
RMSE    : 6,105.55
MAE     : 4,208.23

=== Testing Performance ===
R²      : 0.7836
MSE     : 33,596,915.85
RMSE    : 5,796.28
MAE     : 4,181.19
```