



# Vehicle Performance Analyzer

Number of Cylinders

8

Displacement

304

Horse Power

150

Weight

3433

Acceleration

12

Model Year

70

Origin

1

Predict

{{Prediction}}\_{{mpg}}



# Vehicle Performance Analyzer

```
def predict_mpg(cylinders, displacement, horsepower, weight, acceleration, model_year, origin):  
    # Predicted MPG calculation (simplified)  
    mpg = 100 - (cylinders * 10) - (displacement * 0.05) - (horsepower * 0.02) - (weight * 0.0001) + (acceleration * 0.01) + (model_year * 0.001) + (origin * 0.01)  
    return mpg
```

**Number of Cylinders**  
8

**Displacement**  
304

**Horse Power**  
150

**Weight**  
3433

**Acceleration**  
12

**Model Year**  
70

**Origin**  
1

Predict

The predicted MPG of the vehicle is 16