

Yu-Yuan Chang final R code

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```
carsTrain <- read.csv("carsTrain.csv")
carsTestNoY <- read.csv("carsTestNoY.csv")
attach(carsTrain)

lm(formula = PriceNew~0.2331 ~ Horsepower + Fuel.tank.capacity + Manufacturer + AirBags + Fuel.tank.capacity:AirBags, data = carsTrain)
```

Call:

```
lm(formula = PriceNew~0.2331 ~ Horsepower + Fuel.tank.capacity +
    Manufacturer + AirBags + Fuel.tank.capacity:AirBags, data = carsTrain)
```

Coefficients:

(Intercept)	Horsepower
6.90029	0.00767
Fuel.tank.capacity	ManufacturerAudi
0.15568	0.23479
ManufacturerBMW	ManufacturerBuick
-0.42775	-0.77499
ManufacturerCadillac	ManufacturerChevrolet
0.17361	-0.85937
ManufacturerChrylser	ManufacturerChrysler
-0.77555	-0.23402
ManufacturerDodge	ManufacturerEagle
-1.00345	-0.77644
ManufacturerFord	ManufacturerGeo
-0.74960	-0.59036
ManufacturerHonda	ManufacturerHyundai
-0.54616	-0.79667
ManufacturerInfiniti	ManufacturerLexus
0.12184	-0.24757
ManufacturerLincoln	ManufacturerMazda
0.36216	-0.77932
ManufacturerMercedes-Benz	ManufacturerMercury

	1.09163		-0.54428
ManufacturerMitsubishi		ManufacturerNissan	
	-0.53821		-0.80387
ManufacturerOldsmobile		ManufacturerPlymouth	
	-0.69424		-0.24712
ManufacturerPontiac		ManufacturerSaab	
	-0.64287		0.23239
ManufacturerSaturn		ManufacturerSubaru	
	-0.93305		-0.49352
ManufacturerSuzuki		ManufacturerToyota	
	-0.53880		-0.77183
ManufacturerVolkswagen		ManufacturerVolvo	
	-0.33266		-0.16608
AirBagsDriver only		AirBagsNone	
	1.26926		0.70501
Fuel.tank.capacity:AirBagsDriver only		Fuel.tank.capacity:AirBagsNone	
	-0.06692		-0.06207

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