Simple Linear Regression Model using R

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Linear Regression Output

	Model 1
(Intercept)	27197.47***
	(2763.23)
YearsExperience	9514.99***
	(478.46)
R^2	0.96
Adj. R^2	0.95
Num. obs.	20
RMSE	6033.74

***p < 0.001, **p < 0.01, *p < 0.05

Statistical models

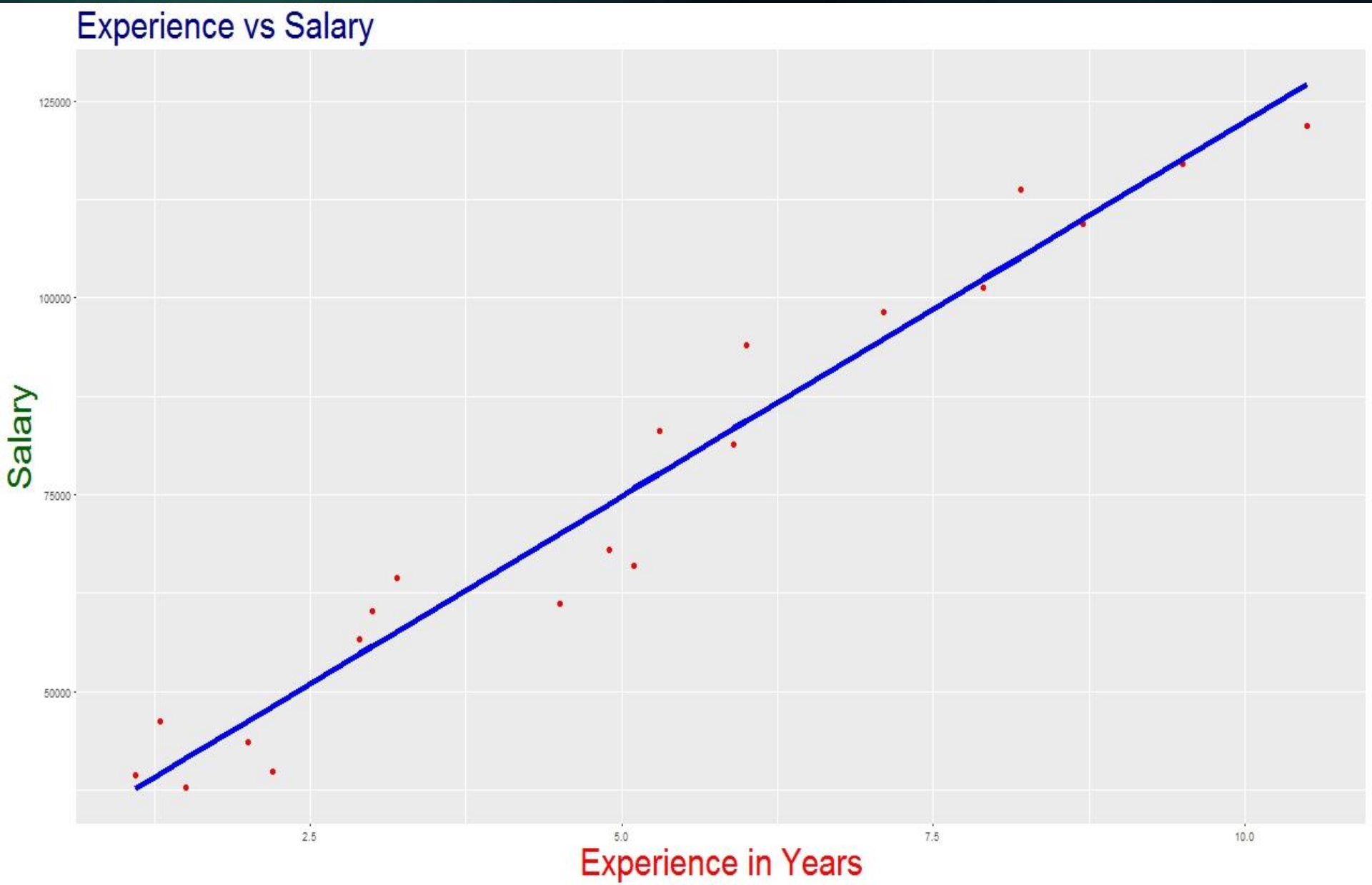
Inference Drawn from Linear Regression Output

- YearExperience is *** that means P<0.001 that means YearExperience is highly significant to Salary
- R squared = 0.96 , Which is very close to 1, Modeling Parameters have stronger relationship

Actual Salary vs Predicted Salary

S.N	YearsExperience	Salary	predict
8	3.2	54445	57645.42
10	3.7	57189	62402.92
11	3.9	63218	64305.92
12	4	55794	65257.41
13	4	56957	65257.41
14	4.1	57081	66208.91
21	6.8	91738	91899.38
26	9	105582	112832.3
28	9.6	112635	118541.3
29	10.3	122391	125201.8

Linear Regression model on training Dataset



Linear Regression model on test Dataset