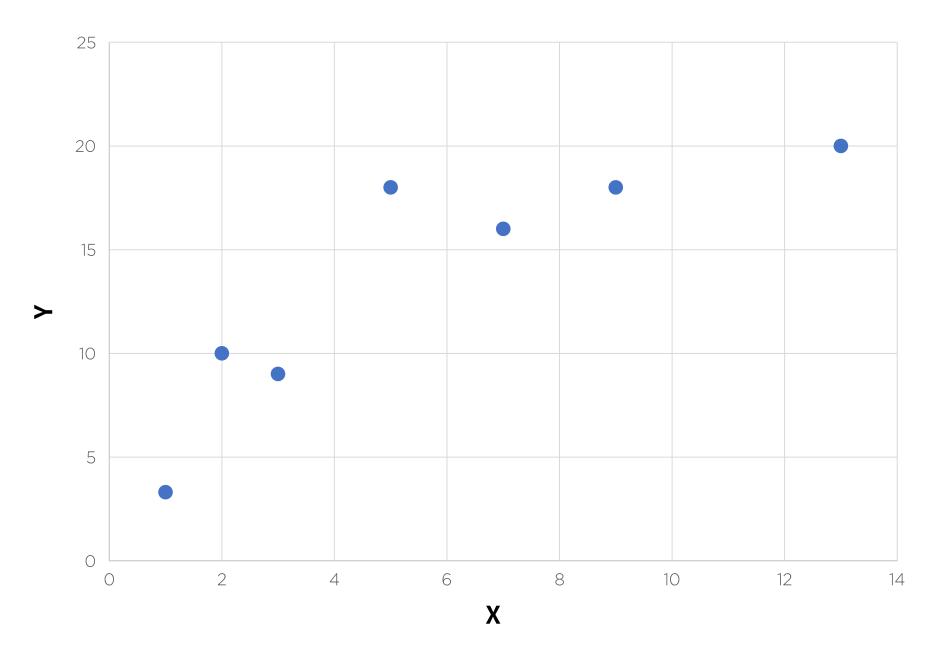
분석의 목적

Linear Regression을 사용하여

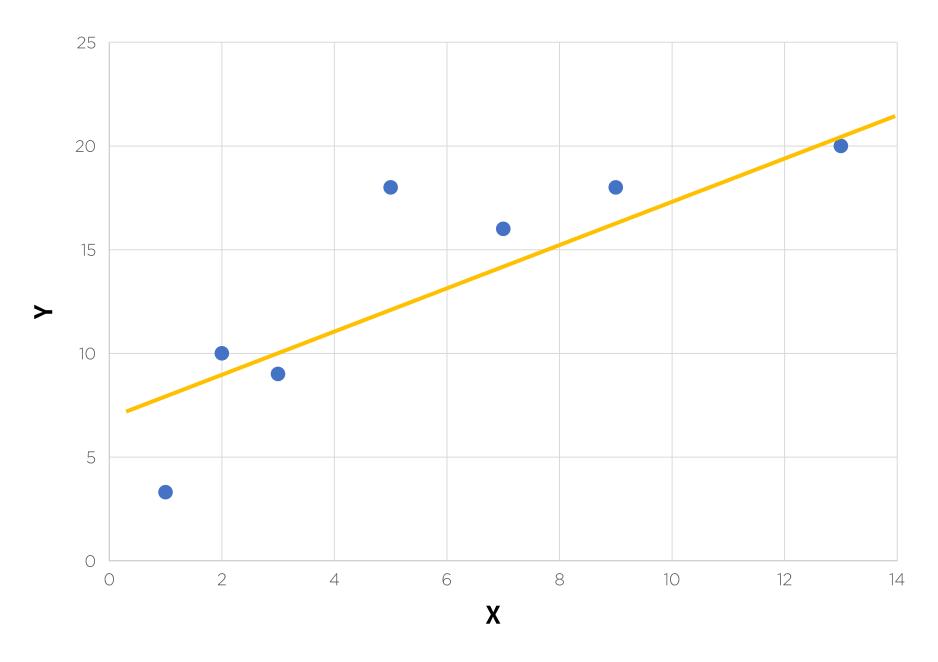
E-Commerce 고객별 연간 지출액을 예측



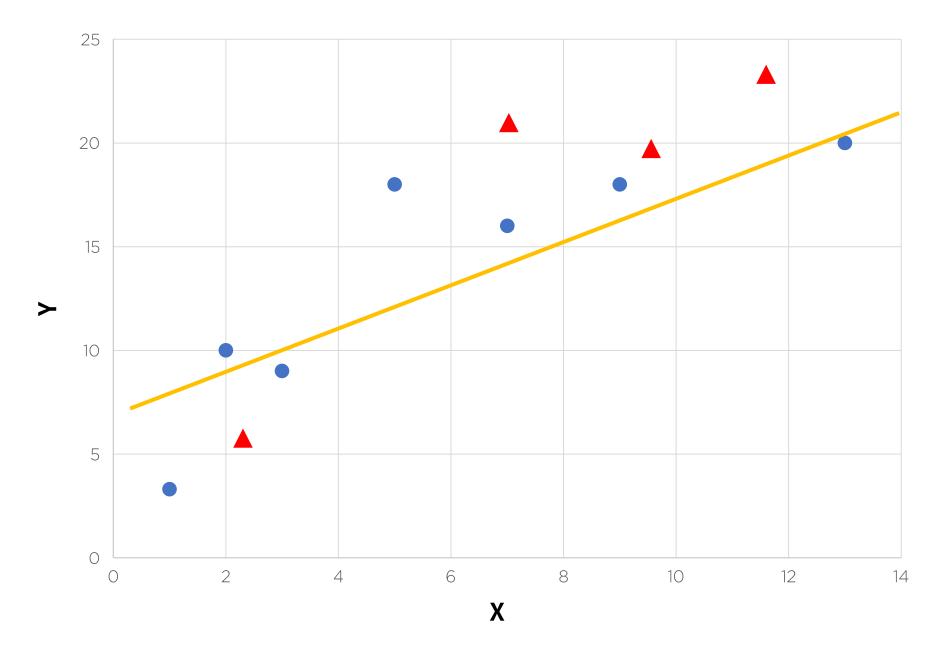




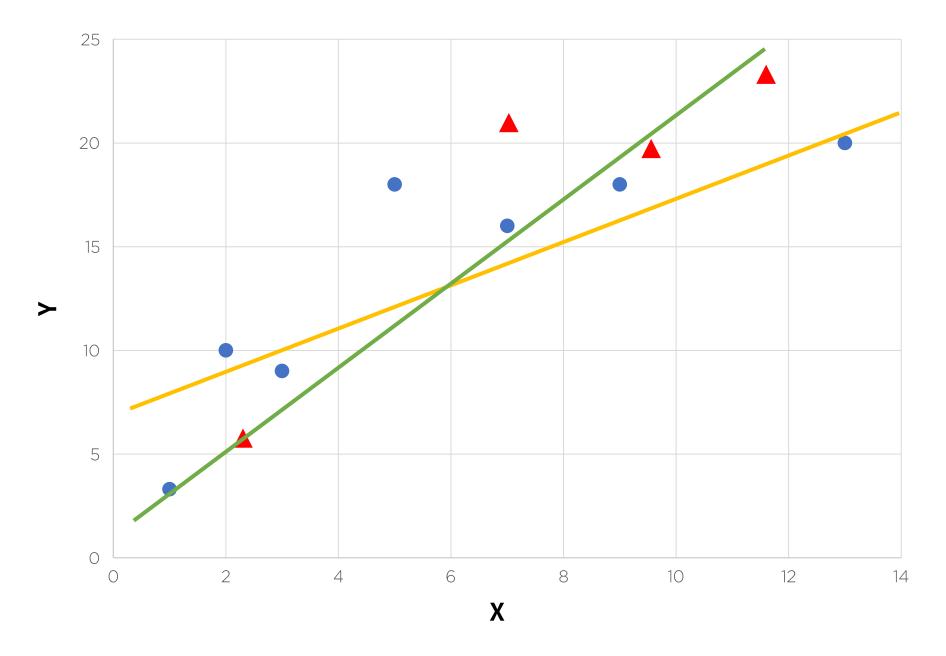












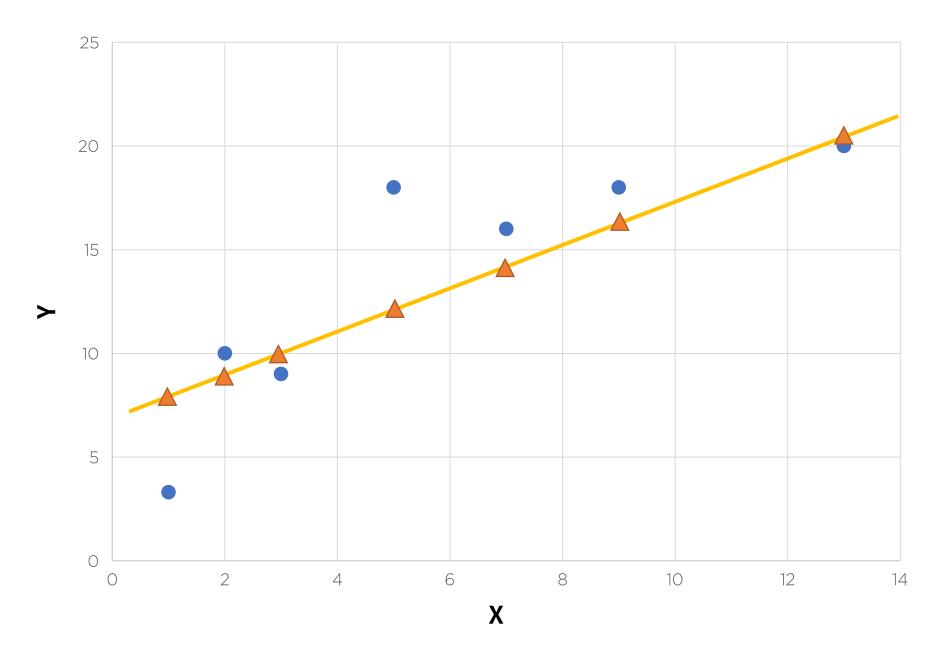




모델을 활용하여 예측하고 평가하기

11

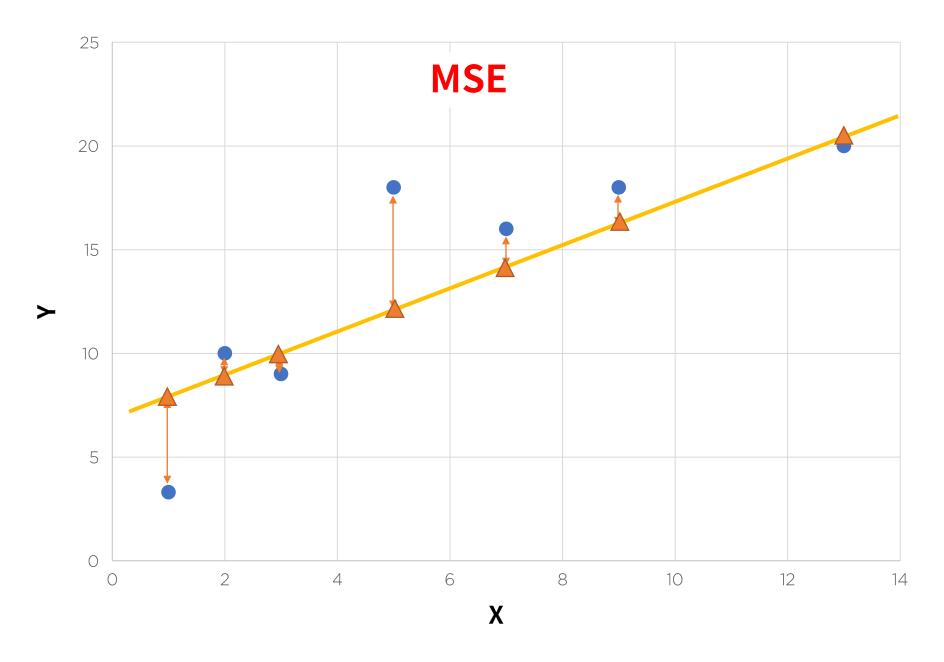
모델을 활용하여 예측 하고 평가하기





11

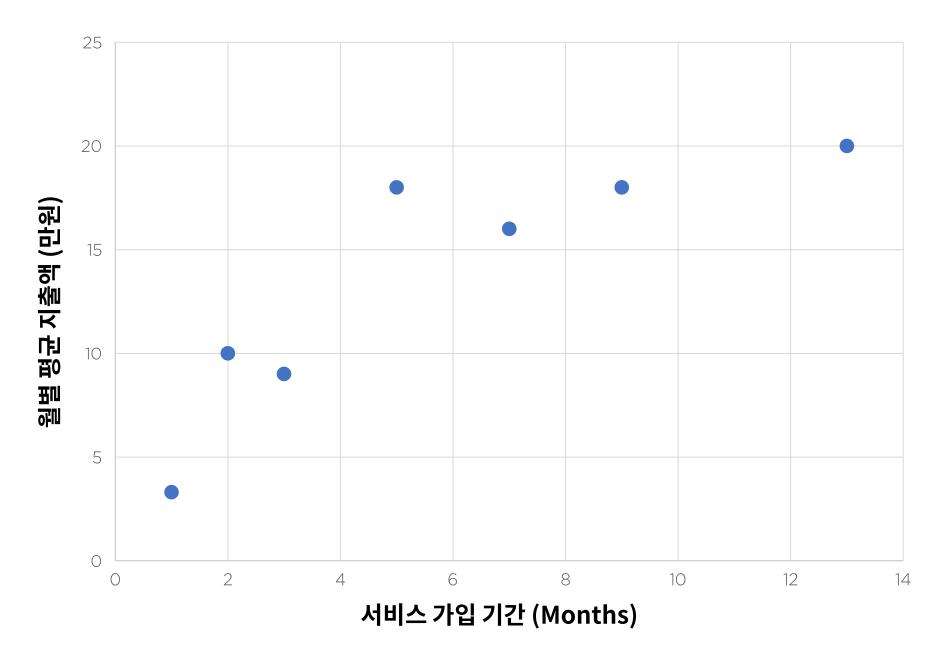
모델을 활용하여 예측 하고 평가하기



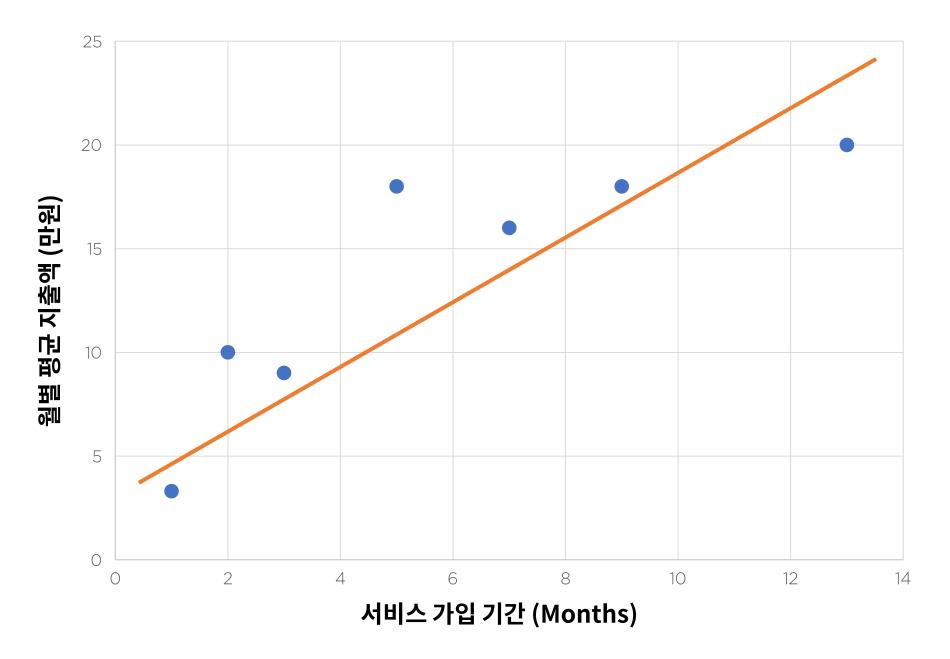




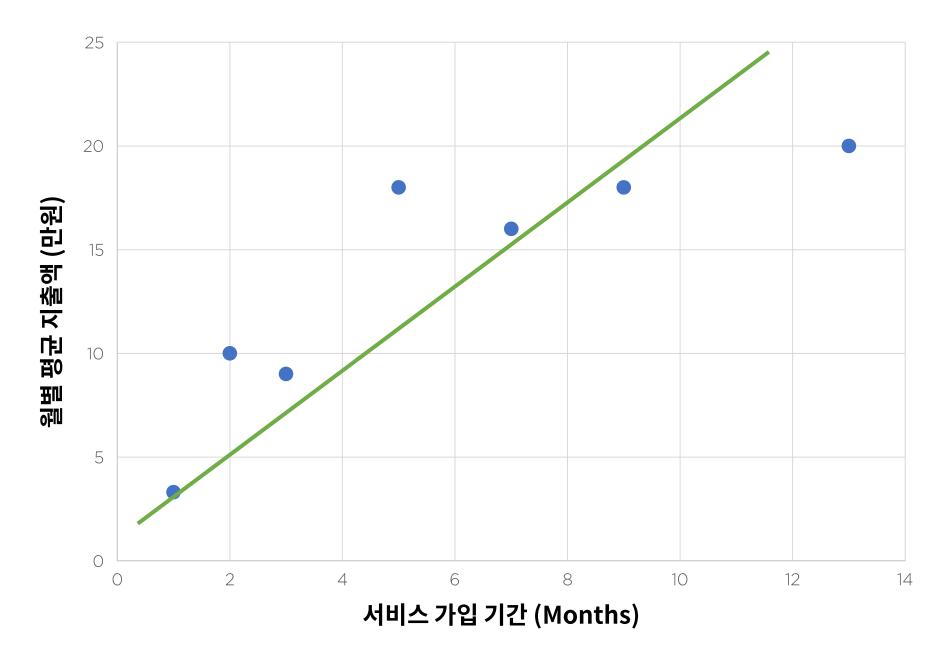
14



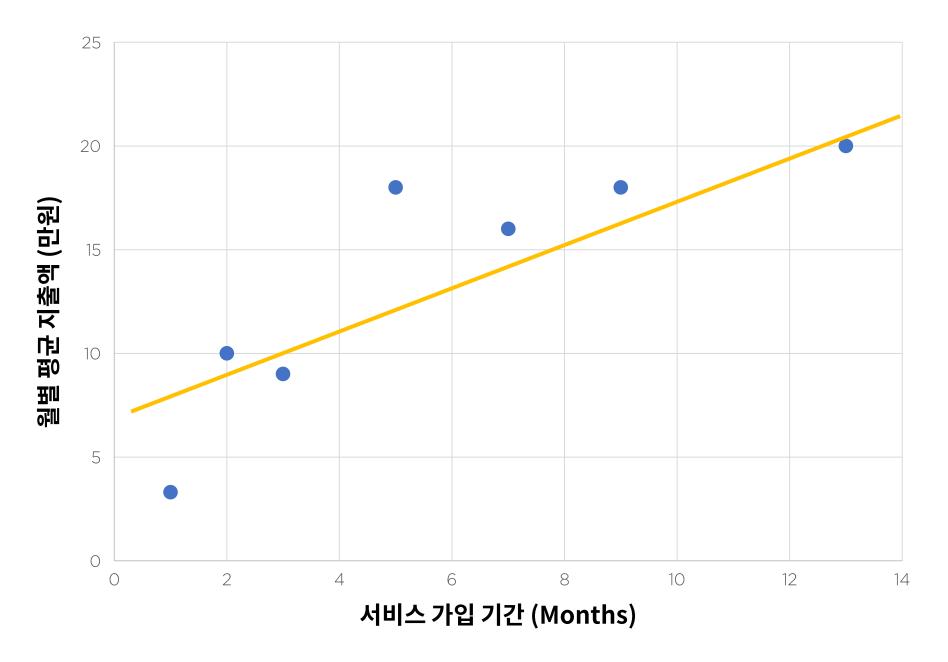
14



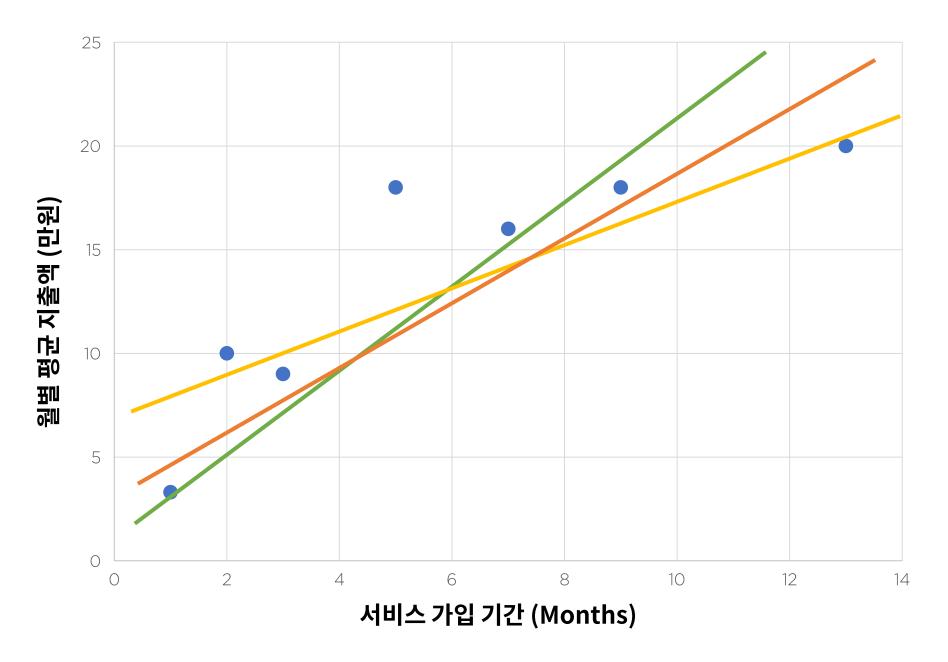
14

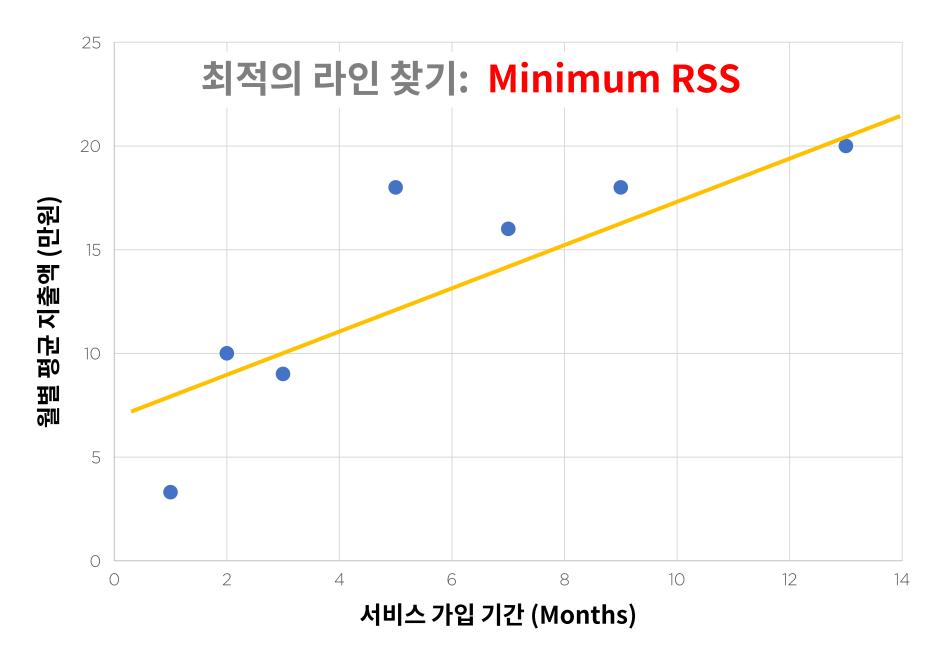


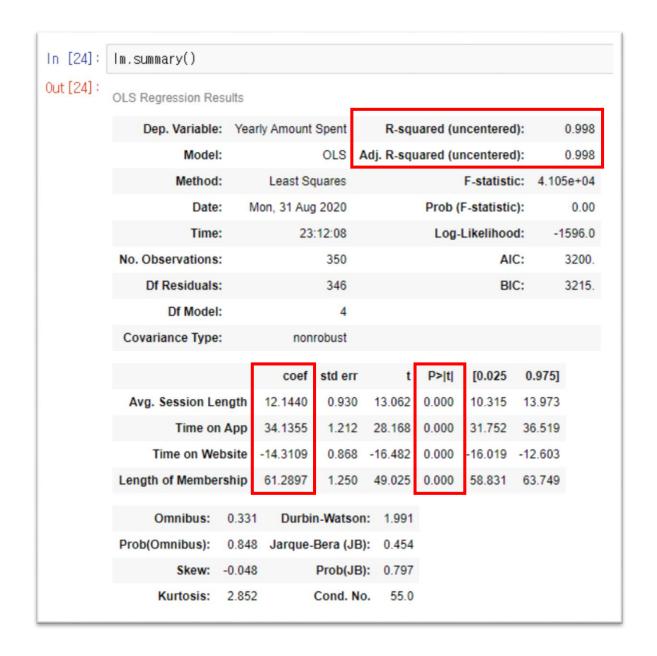
14



14







[R-squared]

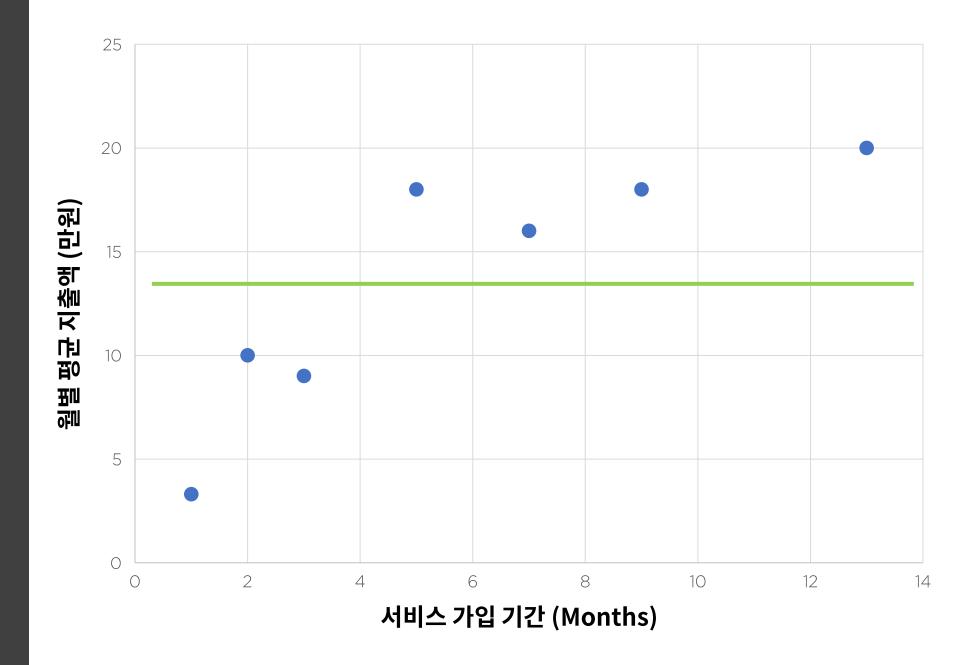
- 클수록 좋은 모델
- Adj. 가 더욱 적절한 평가 기준

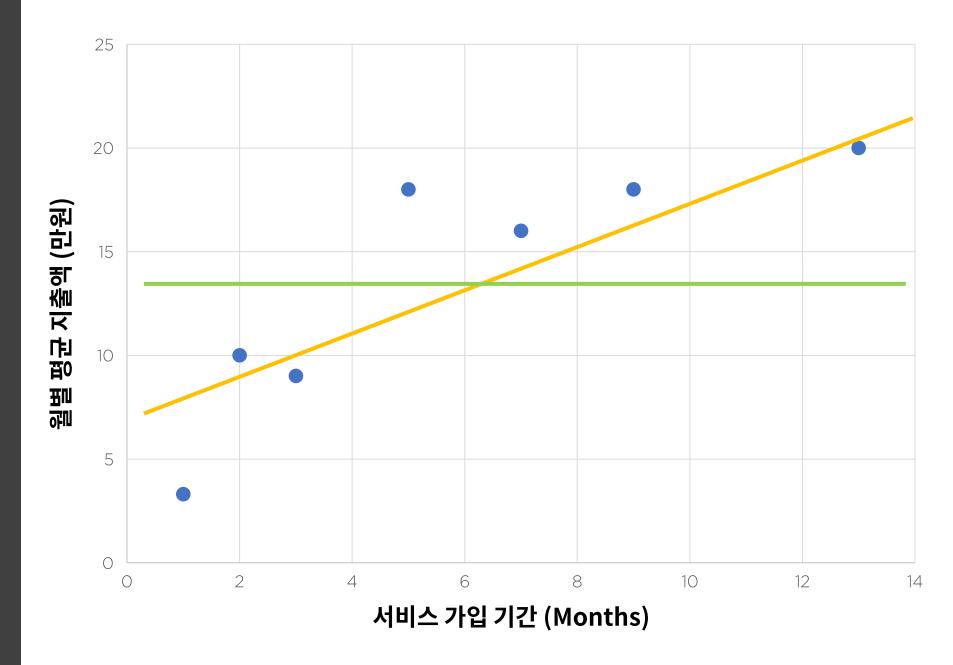
[Coef]

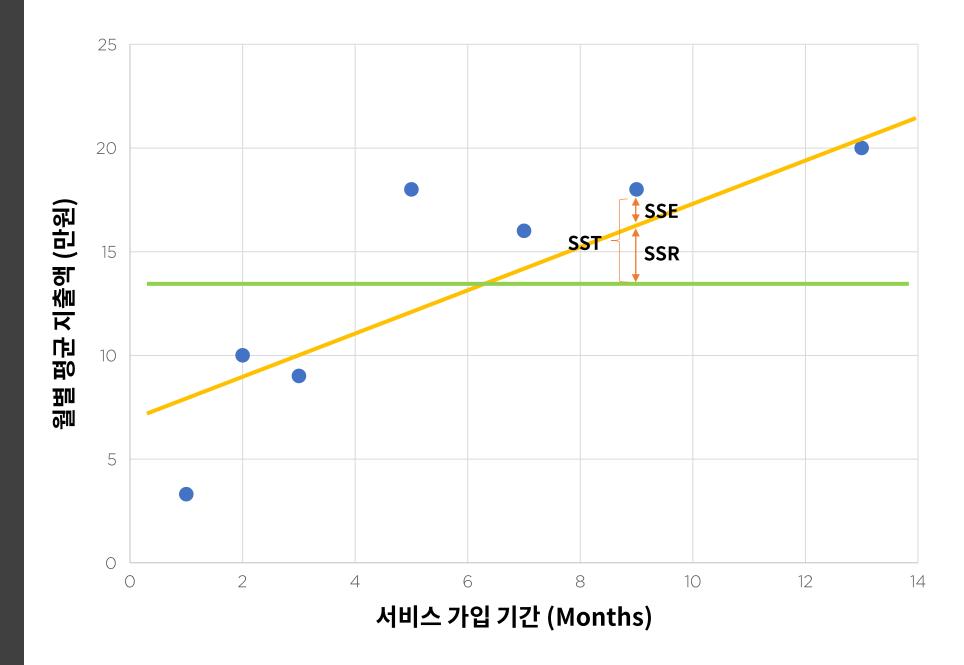
- 변수의 영향력 (강도와 방향)

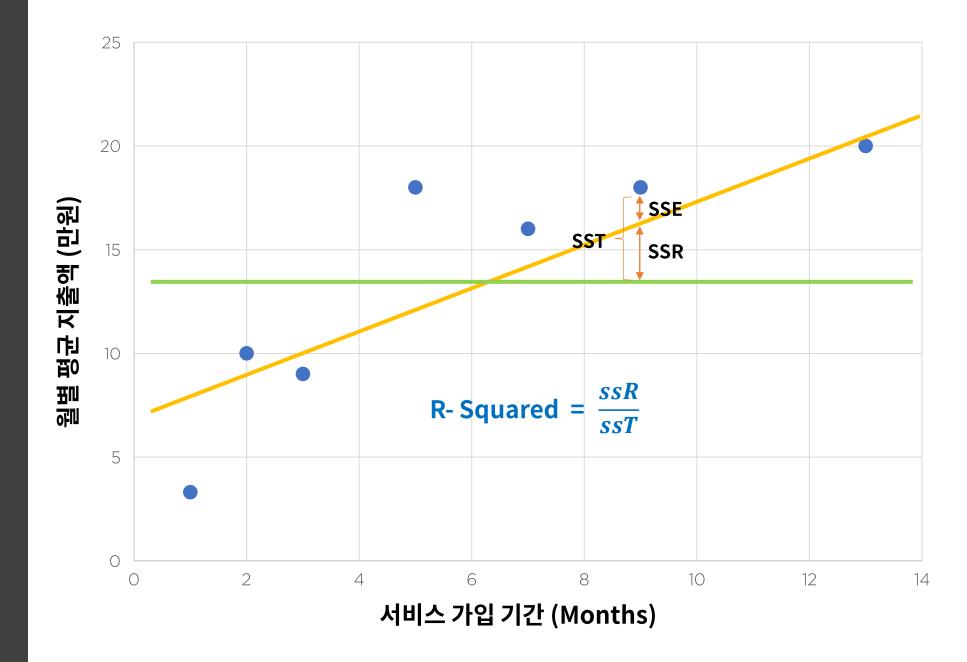
[P-value]

- 신뢰할 수 있는 결과인가?에 대한 척도
- 0.05 이하면 양호









수식 만들어보기

	coef	std err	t	P> t	[0.025	0.975]
Avg. Session Length	12.1440	0.930	13.062	0.000	10.315	13.973
Time on App	34.1355	1.212	28.168	0.000	31.752	36.519
Time on Website	-14.3109	0.868	-16.482	0.000	-16.019	-12.603
Length of Membership	61.2897	1.250	49.025	0.000	58.831	63.749

	coef	std err	t	P> t	[0.025	0.975]
Avg. Session Length	12.1440	0.930	13.062	0.000	10.315	13.973
Time on App	34.1355	1.212	28.168	0.000	31.752	36.519
Time on Website	-14.3109	0.868	-16.482	0.000	-16.019	-12.603
Length of Membership	61.2897	1.250	49.025	0.000	58.831	63.749

12.144 X Avg. Session Length

+

34.1355 X Time on App

y =

-14.3109 X Time on Website

+

61.2897 X Length of Membership



	coef	std err	t	P> t	[0.025	0.975]
Avg. Session Length	12.1440	0.930	13.062	0.000	10.315	13.973
Time on App	34.1355	1.212	28.168	0.000	31.752	36.519
Time on Website	-14.3109	0.868	-16.482	0.000	-16.019	-12.603
Length of Membership	61.2897	1.250	49.025	0.000	58.831	63.749

12.144 X Avg. Session Length

+

34.1355 X Time on App

/ =

-14.3109 X Time on Website

+

61.2897 X Length of Membership

New Data

Avg. Session Length	33		
Time on App	11		
Time on Website	33		
Length of Membership	2.3		

444.9491

