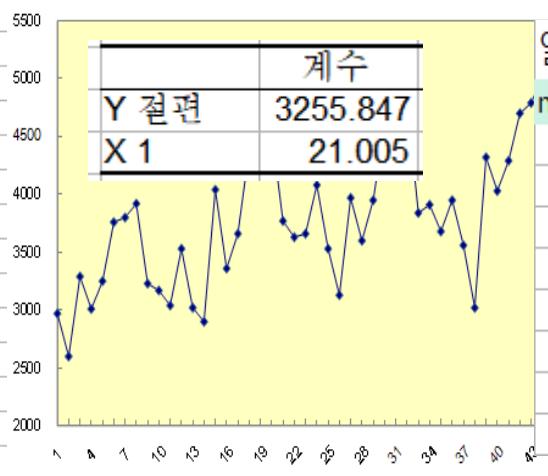
단순회귀 vs 계절지수 회귀

a 항공사 월별 탑승인원

Number of Passengers

Month	1st	2nd	3rd	4th	5th	Mo. Avg	S.I.
Jan	2970	3020	3530	3560	3640	3344	0.86
Feb	2600	2900	3130	3020	3300	2990	0.77
Mar	3290	4040	3970	4320	4180	3960	1.02
Apr	3010	3360	3600	4030	3880	3576	0.92
May	3250	3660	3950	4290	4270	3884	1.00
June	3760	4380	4600	4700	4820	4452	1.14
July	3800	4290	4500	4790	4830	4442	1.14
Aug	3920	4540	4800	5020	5270	4710	1.21
Sept	3230	3770	3840	4110	4310	3852	0.99
Oct	3170	3630	3910	4140	4080	3786	0.97
Nov	3040	3660	3680	3650	3820	3570	0.92
Dec	3530	4080	3950	4840	4560	4192	1.08
						3896.5	1.00

일반 회귀분석

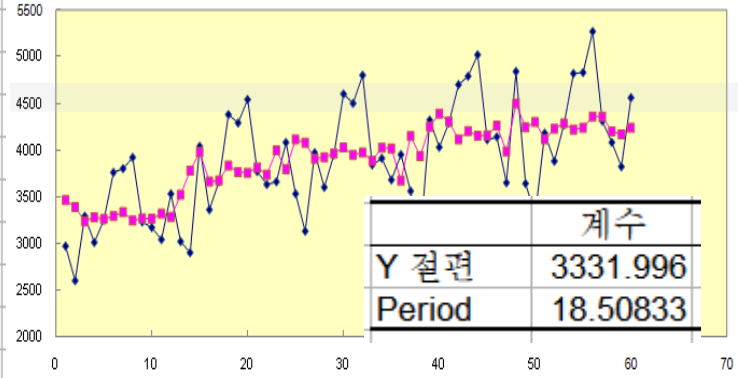


일반 회귀 분석

month	회귀 예측	6th	예측-6th
61	4537.153	3860	677
62	4558.158	3700	858
63	4579.163	5100	-521
64	4600.168	4620	-20
65	4621.173	4840	-219
66	4642.178	5230	-588
67	4663.183	5380	-717
68	4684.188	5860	-1,176

계절 지수 고려 회귀분석

Period	Pax no.	Deseason	S.I.
1	2970	3460.7	0.86
2	2600	3388.3	0.77
3	3290	3237.2	1.02
4	3010	3279.8	0.92
5	3250	3260.5	1.00
6	3760	3290.8	1.14
7	3800	3333.3	1.14
8	3920	3242.9	1.21
9	3230	3267.3	0.99
10	3170	3262.5	0.97

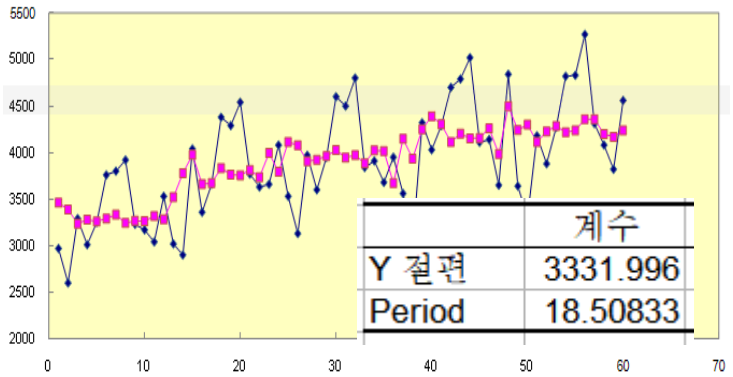


			계절지수 예측	6th	예측-6th
61	4460.11	0.86	3,828	3860	-32
62	4478.62	0.77	3,437	3700	-263
63	4497.13	1.02	4,570	5100	-530
64	4515.64	0.92	4,144	4620	-476
65	4534.15	1.00	4,520	4840	-320
66	4552.66	1.14	5,202	5230	-28
67	4571.17	1.14	5,211	5380	-169
68	4589.68	1.21	5,548	5860	-312

Source : 300. DA_summary_demo.pptx / d1_Forecast-Air-upload-AP added.xls

계절지수 회귀 vs ML

계절 지수 고려 회귀분석



				계절지수 예측		6th		예측-6th
61		4460.11	0.86	3,828		3860		-32
62		4478.62	0.77	3,437		3700		-263
63		4497.13	1.02	4,570		5100		-530
64		4515.64	0.92	4,144		4620		-476
65		4534.15	1.00	4,520		4840		-320
66		4552.66	1.14	5,202		5230		-28
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일반 회귀분석

Source : 300. DA_summary_demo.pptx / d1_Forecast-Air-upload-AP added.xls