

Emilia Romagna Grand Prix, 2021

Forecasting Pierre Gasly's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.4627
Standard Deviation	21.55683
Number of Observations	61
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	19.59	6	0.0033	-0.415	-0.133	0.091	0.054	-0.253	0.182
12	25.91	12	0.0111	0.127	-0.210	0.066	0.028	-0.090	0.111

Variance Estimate	464.9112
Std Error Estimate	21.5618
AIC	547.7631
SBC	547.7631
Number of Residuals	61

* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	19.58	6	0.0033	-0.414	-0.133	0.091	0.054	-0.253	0.181
12	25.90	12	0.0111	0.127	-0.210	0.066	0.028	-0.090	0.111
18	34.94	18	0.0096	-0.017	-0.010	-0.078	0.156	-0.225	0.149
24	39.63	24	0.0234	0.085	-0.180	0.086	0.009	-0.009	-0.050

Model for variable time	
Period(s) of Differencing	1,1

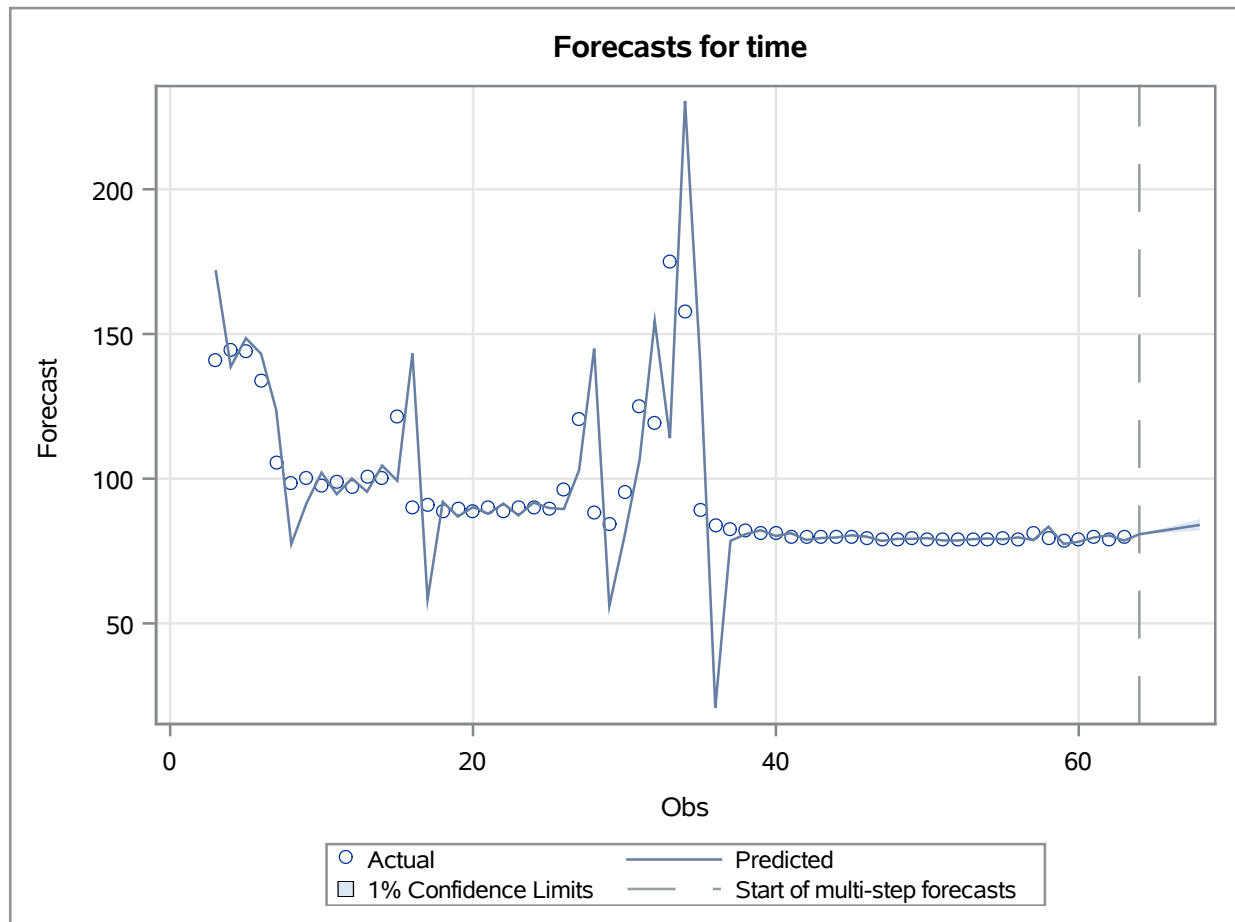
No mean term in this model.

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Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
64	80.8090	21.5618	80.5388	81.0792
65	81.6110	48.2137	81.0067	82.2153
66	82.4130	80.6769	81.4018	83.4242
67	83.2150	118.0988	81.7348	84.6952
68	84.0170	159.9066	82.0128	86.0212



Outlier Detection Summary	
Maximum number searched	2
Number found	2
Significance used	0.05

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Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
33	Shift	66.94100	564.99	<.0001
35	Shift	-57.07850	410.78	<.0001