

Emilia Romagna Grand Prix, 2021

Forecasting Charles LeClerc's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.62233
Standard Deviation	15.0802
Number of Observations	61
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	15.78	6	0.0150	-0.279	-0.206	-0.081	0.140	0.181	-0.240
12	15.85	12	0.1983	0.020	0.020	0.004	-0.001	-0.006	-0.006

Variance Estimate	227.7997
Std Error Estimate	15.09303
AIC	504.247
SBC	504.247
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	15.69	6	0.0155	-0.279	-0.206	-0.081	0.139	0.179	-0.239
12	15.75	12	0.2029	0.020	0.020	0.005	-0.001	-0.006	-0.005
18	15.79	18	0.6069	0.005	0.012	-0.008	-0.011	0.010	0.007
24	21.35	24	0.6178	-0.008	0.007	0.030	-0.154	0.171	0.039

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

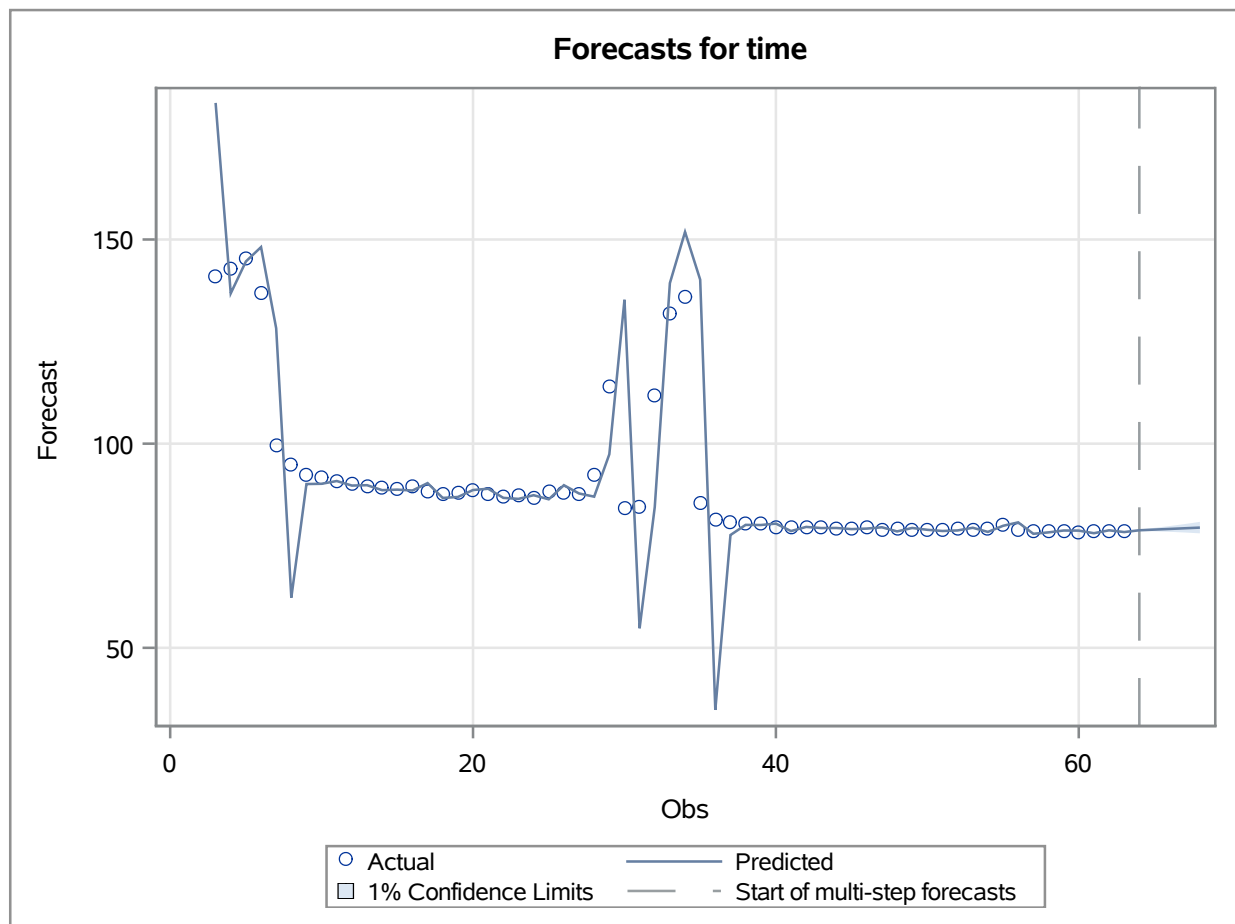
No mean term in this model.

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Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
64	78.7870	15.0930	78.5978	78.9762
65	78.9500	33.7490	78.5270	79.3730
66	79.1130	56.4730	78.4052	79.8208
67	79.2760	82.6679	78.2399	80.3121
68	79.4390	111.9329	78.0361	80.8419



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
35	Shift	-50.74150	4760.73	<.0001
29	Additive	24.65100	3370.83	<.0001