

Emilia Romagna Grand Prix, 2021

Forecasting Daniel Riccardo's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.50585
Standard Deviation	16.32283
Number of Observations	60
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	30.82	6	<.0001	-0.495	0.071	-0.074	0.076	-0.216	0.402
12	37.66	12	0.0002	-0.300	0.057	0.015	-0.031	0.045	-0.026

Variance Estimate	266.6906
Std Error Estimate	16.33066
AIC	505.438
SBC	505.438
Number of Residuals	60

* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	30.79	6	<.0001	-0.494	0.071	-0.074	0.076	-0.217	0.402
12	37.62	12	0.0002	-0.300	0.057	0.016	-0.031	0.045	-0.026
18	38.27	18	0.0036	0.004	-0.007	0.022	-0.039	0.057	-0.047
24	41.34	24	0.0153	0.018	0.034	-0.128	0.116	0.018	-0.019

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

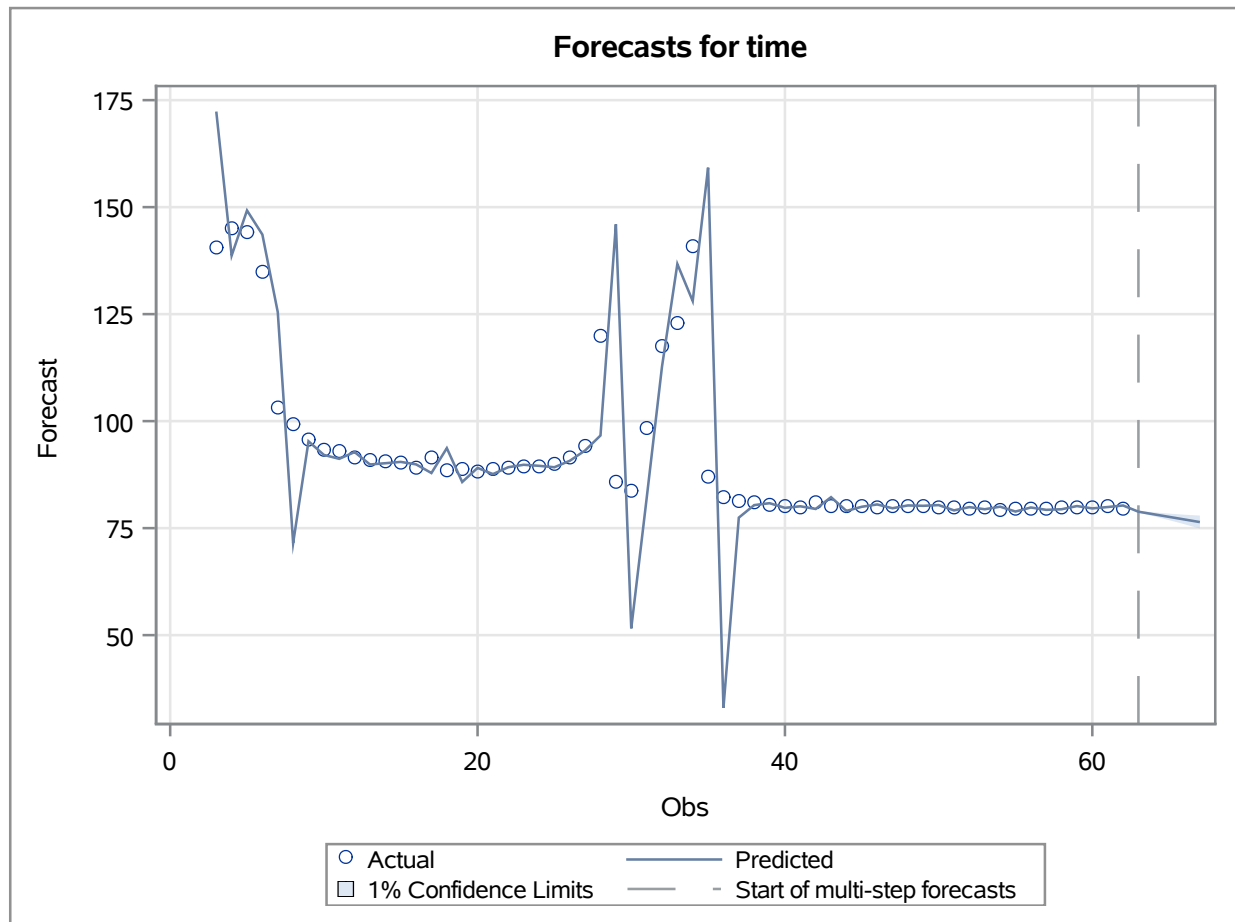
No mean term in this model.

Emilia Romagna Grand Prix, 2021

Forecasting Daniel Riccardo's Next 5 Lap Times

Nathan Jones 2022

Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
63	78.8370	16.3307	78.6323	79.0417
64	78.2310	36.5165	77.7733	78.6887
65	77.6250	61.1037	76.8592	78.3908
66	77.0190	89.4467	75.8979	78.1401
67	76.4130	121.1114	74.8951	77.9309



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

Emilia Romagna Grand Prix, 2021

Forecasting Daniel Riccardo's Next 5 Lap Times

Nathan Jones 2022

Outlier Details				
Obs	Type	Estimate	Chi-Square	Approx Prob>ChiSq
35	Shift	-60.71600	4629.10	<.0001
28	Additive	29.34067	3243.04	<.0001