Emilia Romagna Grand Prix, 2021

Forecasting Nikita Mazepin's Next 5 Lap Times
Nathan Jones 2022

Name of Variable = time	
Period(s) of Differencing	1,1
Mean of Working Series	-0.13783
Standard Deviation	25.68355
Number of Observations	59
Observation(s) eliminated by differencing	2

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	41.36	6	<.0001	-0.693	0.295	-0.079	-0.007	-0.134	0.257
12	58.36	12	<.0001	-0.305	0.260	-0.044	-0.147	0.191	-0.132

Variance Estimate	659.6639
Std Error Estimate	25.68392
AIC	550.4468
SBC	550.4468
Number of Residuals	59

* AIC and SBC do not include log determinant.

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	41.36	6	<.0001	-0.693	0.295	-0.079	-0.007	-0.134	0.257
12	58.35	12	<.0001	-0.305	0.260	-0.044	-0.147	0.192	-0.132
18	63.98	18	<.0001	0.061	-0.032	0.052	-0.114	0.139	-0.161
24	66.20	24	<.0001	0.150	-0.036	-0.020	0.009	0.006	-0.020

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

No mean term in this model.

Forecasts for variable time				
Obs	Forecast	Std Error	1% Confidence Limits	
62	92.4900	25.6839	92.1681	92.8119
63	97.0090	57.4310	96.2892	97.7288
64	101.5280	96.1004	100.3235	102.7325

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		Forecasts for variable time		
Obs	**Forecast**	**Std Error**	**1% Confidence Limits**	
65	106.0470	140.6766	104.2838	107.8102
66	110.5660	190.4771	108.1787	112.9533

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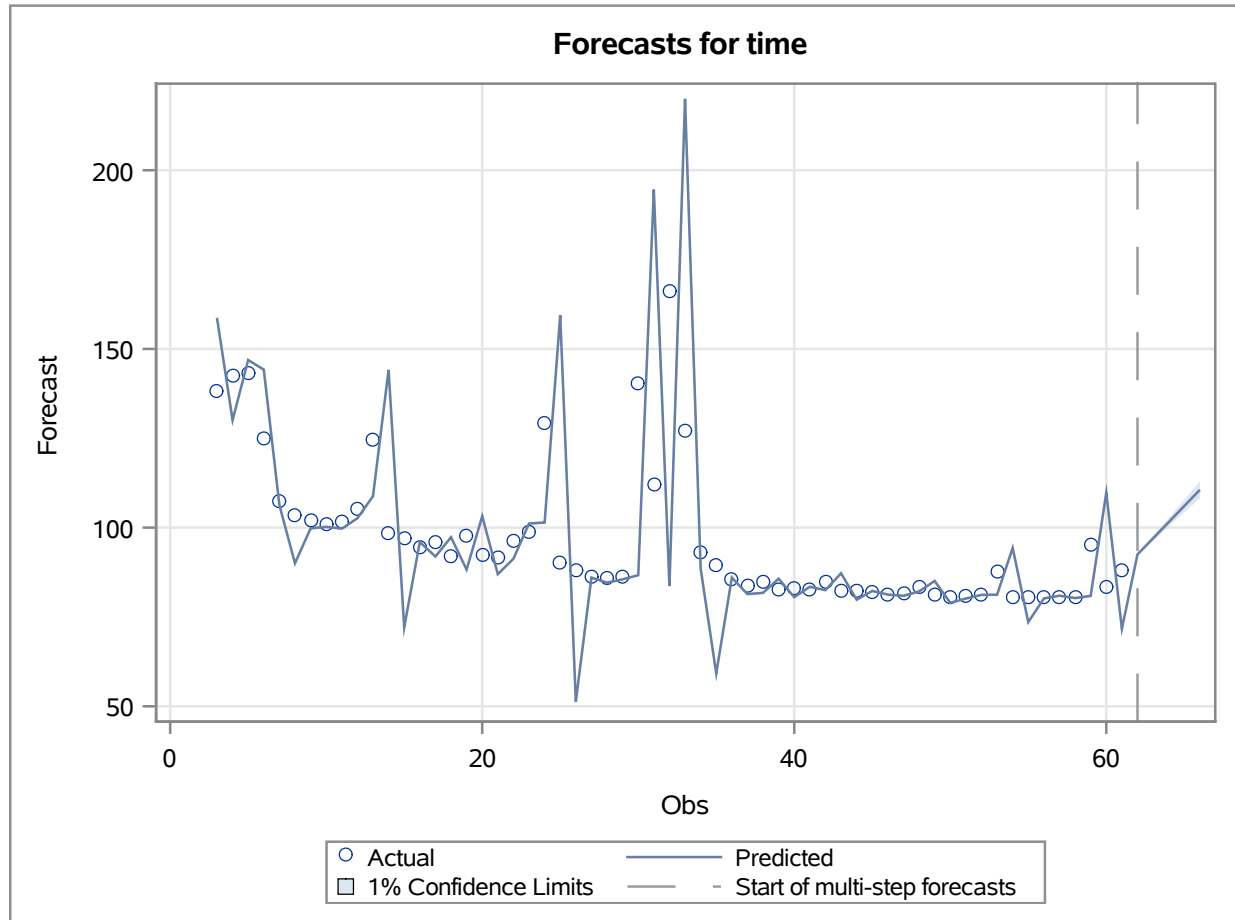
Outlier Detection Summary	
Maximum number searched	2
Number found	2
Significance used	0.05

	Outlier Details			
Obs	**Type**	**Estimate**	**Chi-Square**	**Approx Prob>ChiSq**
31	Additive	-56.66067	571.91	<.0001
24	Additive	33.82983	203.87	<.0001