

	Split Ratio	Data Resolution	Time Steps	MLP						LSTM						Bagging																			
One day	76%-24% (186,57)	Daily	1		Lag size	Test RMSE	Test MAPE	Test Time	Plots		Lag size	Test RMSE	Test MAPE	Test Time	Plots																				
				1 st Combination	7	0.065380	15.414147	0.039894		1 st Combination	6	0.074315	16.676701	31.131805																					
				2 nd Combination	7	0.056232	13.181781	0.035864		2 nd Combination	6	0.063034	15.680233	27.573774																					
				3 rd Combination	4	0.068888	16.788136	0.027887		3 rd Combination	6	0.069917	17.202925	36.168528																					
				4 th Combination	7	0.074528	17.112148	0.044841		4 th Combination	2	0.113483	33.517779	39.081810																					
<table><tr><td>Combination</td><td>2</td><td>Performance Gain</td></tr><tr><td>Algorithm</td><td>MLP</td><td></td></tr><tr><td>Test RMSE</td><td>0.056152</td><td>-0.15%</td></tr><tr><td>Test MAPE</td><td>13.249165</td><td>+0.5%</td></tr><tr><td>Test Time</td><td>4.053964</td><td></td></tr><tr><td>Lag Size</td><td>7</td><td></td></tr></table>																		Combination	2	Performance Gain	Algorithm	MLP		Test RMSE	0.056152	-0.15%	Test MAPE	13.249165	+0.5%	Test Time	4.053964		Lag Size	7	
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Three days	76%-24% (186,57)	Daily	3		Lag size	Test RMSE	Test MAPE	Test Time	Plots		Lag size	Test RMSE	Test MAPE	Test Time	Plots																				
				1 st Combination	5	0.068749	11.612537	0.046858		1 st Combination	5	0.077709	12.957556	4.700438																					
				2 nd Combination	5	0.057773	9.253183	0.046864		2 nd Combination	6	0.069232	10.995900	8.741561																					
				3 rd Combination	4	0.074690	12.388048	0.124441		3 rd Combination	2	0.124275	22.384553	11.676781																					
				4 th Combination	3	0.073114	11.945243	0.030140		4 th Combination	2	0.105807	18.433403	13.042839																					
<table><tr><td>Combination</td><td></td><td></td></tr><tr><td>Algorithm</td><td>MLP</td><td></td></tr><tr><td>Test RMSE</td><td>0.057722</td><td>-0.09%</td></tr><tr><td>Test MAPE</td><td>9.261317</td><td>+0.08</td></tr><tr><td>Test Time</td><td>3.795282</td><td></td></tr><tr><td>Lag Size</td><td>5</td><td></td></tr></table>																		Combination			Algorithm	MLP		Test RMSE	0.057722	-0.09%	Test MAPE	9.261317	+0.08	Test Time	3.795282		Lag Size	5	
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One week	76%-24% (186,57)	Daily	7		Lag size	Test RMSE	Test MAPE	Test Time	Plots		Lag size	Test RMSE	Test MAPE	Test Time	Plots	100 bootstrapped time series																			
				1 st Combination	3	0.073783	6.477017	0.038898		1 st Combination	3	0.073837	6.560913	42.225042		<table><tr><td>Combination</td><td>2</td><td>Performance Gain</td></tr><tr><td>Algorithm</td><td>MLP</td><td></td></tr><tr><td>Test RMSE</td><td>0.062888</td><td>-0.6%</td></tr><tr><td>Test MAPE</td><td>6.052835</td><td>-0.6%</td></tr><tr><td>Test Time</td><td>3.810647</td><td></td></tr><tr><td>Lag Size</td><td>5</td><td></td></tr></table>	Combination	2	Performance Gain	Algorithm	MLP		Test RMSE	0.062888	-0.6%	Test MAPE	6.052835	-0.6%	Test Time	3.810647		Lag Size	5		
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2 nd Combination	5	0.063675	6.509698	0.037905		2 nd Combination	3	0.067758	6.257879	36.555937																									
3 rd Combination	4	0.075548	7.142570	0.039892		3 rd Combination	3	0.083946	7.476377	41.519178																									
4 th Combination	4	0.073972	7.065916	0.041888		4 th Combination	3	0.121519	10.662541	45.910812																									

Feature Combinations				
	1	2	3	4
<i>Tmax</i>	*		*	*
<i>R_inc</i>	*	*		*
<i>RH</i>				*
<i>Sun Hours</i>	*			*