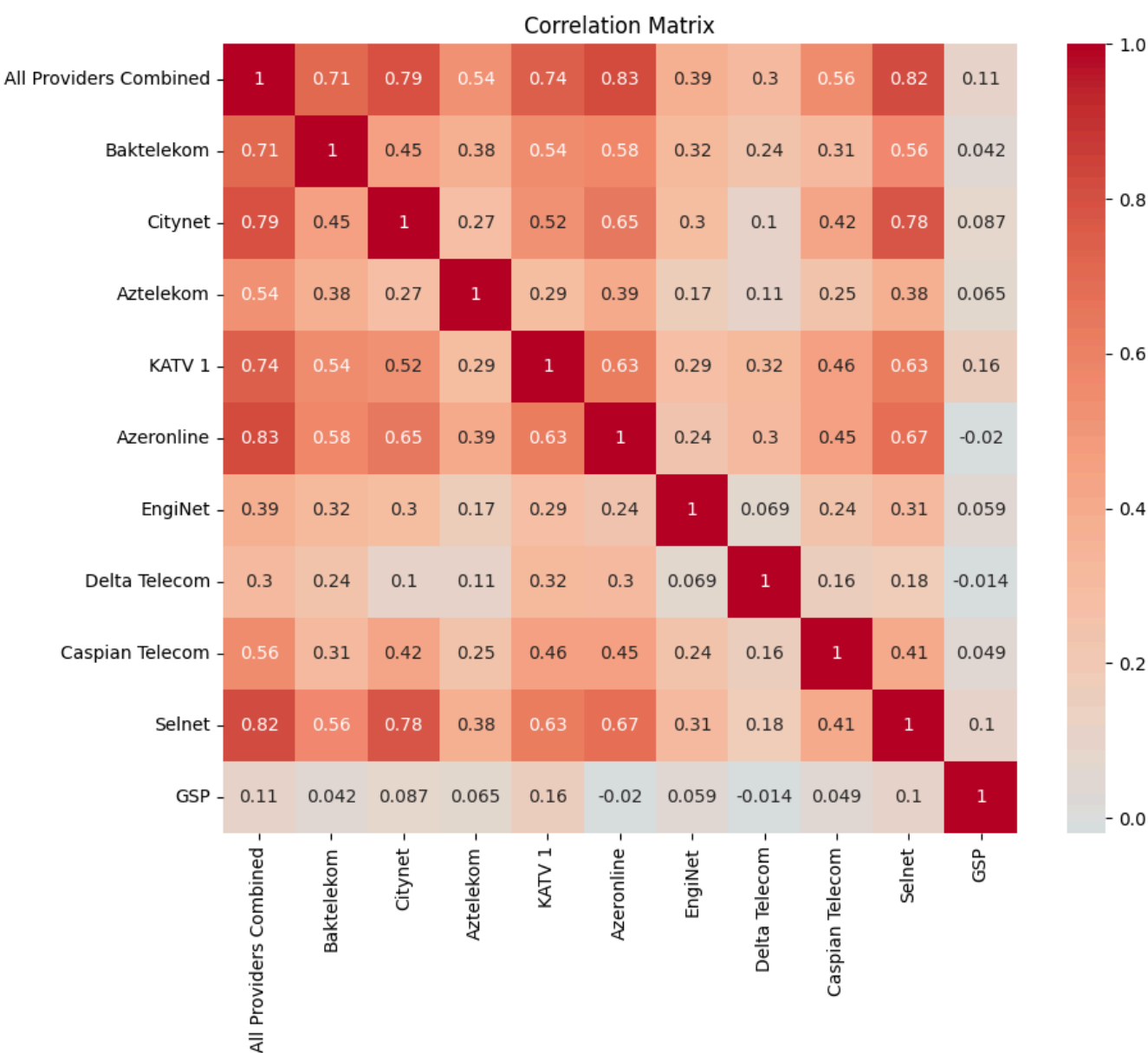


Import Data and Choose the Largest 10



Check Stationarity

ADF Test Results (Before and After Differencing):

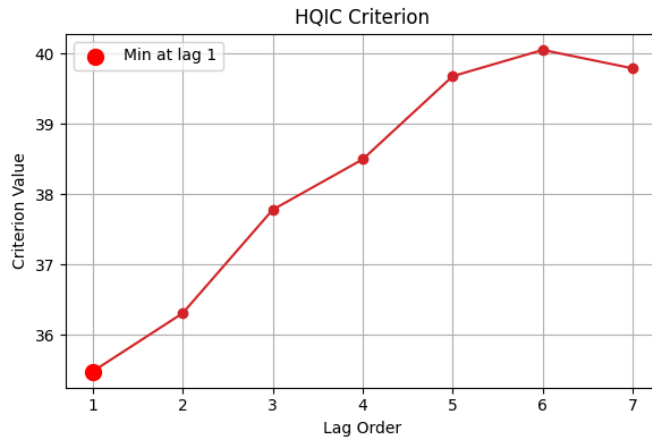
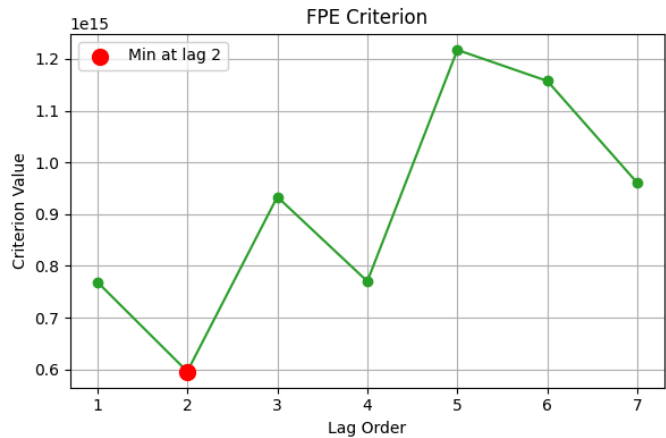
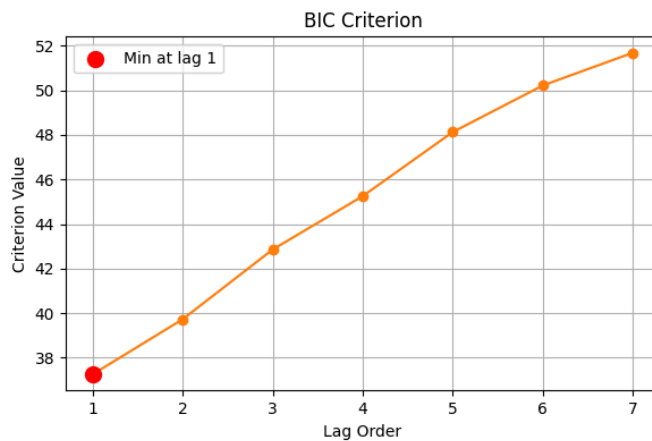
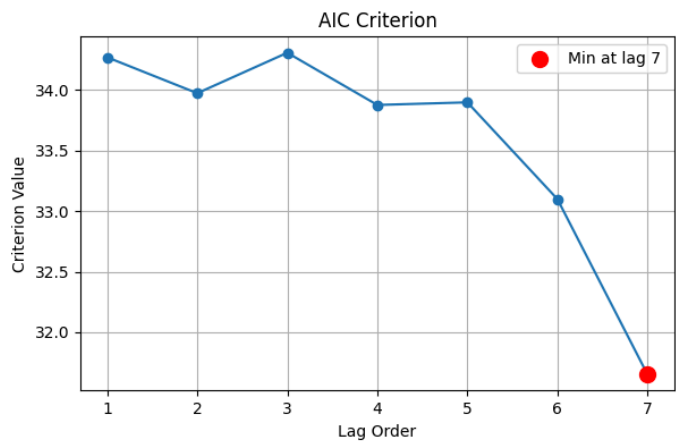
Series	Stage	ADF Statistic			p-value
		After	Before	After	
		Differencing	Differencing	Differencing	
All Providers					
Combined_Download_Speed_Mbps		-8.1084	-0.8082	0.0000	0.8160
Azeronline_Download_Speed_Mbps		-6.8799	0.0010	0.0000	0.9580
Aztelekom_Download_Speed_Mbps		-9.7074	-4.0032	0.0000	0.0010
Baktelekom_Download_Speed_Mbps		-7.4582	-4.0178	0.0000	0.0010
Caspian					
Telecom_Download_Speed_Mbps		-8.8285	-3.0763	0.0000	0.0280
Citynet_Download_Speed_Mbps		-8.5323	-0.9305	0.0000	0.7770
Delta					
Telecom_Download_Speed_Mbps		-7.8757	-1.8116	0.0000	0.3740
EngiNet_Download_Speed_Mbps		-9.2143	-3.5229	0.0000	0.0070
GSP_Download_Speed_Mbps		-10.8854	-11.1703	0.0000	0.0000
KATV 1_Download_Speed_Mbps		-7.4798	-2.4240	0.0000	0.1350
Selnet_Download_Speed_Mbps		-6.3241	-0.5673	0.0000	0.8780

VAR Modeling

Using maxlags=7 for VAR order selection (n_obs=126, n_vars=11)

Lag Selection Criteria:

	AIC	BIC	FPE	HQIC
1	34.269748	37.256447	7.691233e+14	35.483086
2	33.973386	39.727670	5.959473e+14	36.310911
3	34.307457	42.858326	9.334046e+14	37.780799
4	33.876394	45.253364	7.702313e+14	38.497367
5	33.897965	48.131080	1.217448e+15	39.678575
6	33.099243	50.219088	1.157332e+15	40.051691
7	31.652357	51.690071	9.601757e+14	39.789040



Optimal lag orders:
AIC: 7, BIC: 1, FPE: 2, HQIC: 1

Using AIC optimal lag order: 7

Model Summary:

Summary of Regression Results

```
=====
Model:                               VAR
Method:                              OLS
Date:                               Mon, 21, Apr, 2025
Time:                               03:59:33
```

```
-----
No. of Equations:      11.0000      BIC:                               51.6901
Nobs:                  119.000      HQIC:                              39.7890
Log likelihood:        -2882.71      FPE:                               9.60176e+14
AIC:                   31.6524      Det(Omega_mle):          3.75179e+12
-----
```

Results for equation All Providers Combined_Download_Speed_Mbps

```
=====
=====
t-stat          prob          coefficient          std. error
-----
-----
const          0.965          0.335          0.242159          0.250931
L1.All Providers Combined_Download_Speed_Mbps
-2.481          0.013          -0.662626          0.267088
L1.Baktelekom_Download_Speed_Mbps
0.628          0.530          0.041121          0.065498
L1.Citynet_Download_Speed_Mbps
-1.148          0.251          -0.154948          0.134943
L1.Aztelemek_Download_Speed_Mbps
-0.396          0.692          -0.026425          0.066657
L1.KATV_1_Download_Speed_Mbps
0.427          0.669          0.054402          0.127269
L1.Azeronline_Download_Speed_Mbps
-1.250          0.211          -0.054302          0.043448
L1.EngiNet_Download_Speed_Mbps
0.955          0.339          0.096470          0.100994
L1.Delta Telecom_Download_Speed_Mbps
0.685          0.494          0.146869          0.214530
L1.Caspian Telecom_Download_Speed_Mbps
0.564          0.573          0.043546          0.077204
L1.Selnet_Download_Speed_Mbps
-0.289          0.772          -0.024623          0.085069
L1.GSP_Download_Speed_Mbps
0.208          0.835          0.015374          0.073887
L2.All Providers Combined_Download_Speed_Mbps
-1.195          0.232          -0.371264          0.310782
L2.Baktelekom_Download_Speed_Mbps
-0.479          0.632          -0.042036          0.087673
L2.Citynet_Download_Speed_Mbps
-0.612          0.541          -0.104976          0.171631
L2.Aztelemek_Download_Speed_Mbps
0.034954          0.087175
```

0.401	0.688		
L2.KATV_1_Download_Speed_Mbps		0.077984	0.169545
0.460	0.646		
L2.Azeronline_Download_Speed_Mbps		0.031170	0.050385
0.619	0.536		
L2.EngiNet_Download_Speed_Mbps		0.064545	0.106291
0.607	0.544		
L2.Delta_Telecom_Download_Speed_Mbps		0.055380	0.232588
0.238	0.812		
L2.Caspian_Telecom_Download_Speed_Mbps		-0.017359	0.091475
-0.190	0.849		
L2.Selnet_Download_Speed_Mbps		0.121581	0.081071
1.500	0.134		
L2.GSP_Download_Speed_Mbps		-0.100671	0.091848
-1.096	0.273		
L3.All_Providers_Combined_Download_Speed_Mbps		-0.404366	0.349400
-1.157	0.247		
L3.Baktelekom_Download_Speed_Mbps		0.025805	0.087186
0.296	0.767		
L3.Citynet_Download_Speed_Mbps		-0.178057	0.178819
-0.996	0.319		
L3.Aztelekom_Download_Speed_Mbps		-0.009491	0.103853
-0.091	0.927		
L3.KATV_1_Download_Speed_Mbps		-0.012962	0.181517
-0.071	0.943		
L3.Azeronline_Download_Speed_Mbps		0.037503	0.057287
0.655	0.513		
L3.EngiNet_Download_Speed_Mbps		0.033110	0.118026
0.281	0.779		
L3.Delta_Telecom_Download_Speed_Mbps		-0.120834	0.231292
-0.522	0.601		
L3.Caspian_Telecom_Download_Speed_Mbps		0.065276	0.097029
0.673	0.501		
L3.Selnet_Download_Speed_Mbps		0.056257	0.088664
0.635	0.526		
L3.GSP_Download_Speed_Mbps		-0.062650	0.091949
-0.681	0.496		
L4.All_Providers_Combined_Download_Speed_Mbps		-0.249630	0.362726
-0.688	0.491		
L4.Baktelekom_Download_Speed_Mbps		0.036841	0.087921
0.419	0.675		
L4.Citynet_Download_Speed_Mbps		-0.280244	0.205270
-1.365	0.172		
L4.Aztelekom_Download_Speed_Mbps		-0.130185	0.106787
-1.219	0.223		
L4.KATV_1_Download_Speed_Mbps		-0.097071	0.163654
-0.593	0.553		
L4.Azeronline_Download_Speed_Mbps		0.058105	0.057820
1.005	0.315		
L4.EngiNet_Download_Speed_Mbps		-0.047732	0.128538
-0.371	0.710		
L4.Delta_Telecom_Download_Speed_Mbps		-0.148207	0.251687
-0.589	0.556		
L4.Caspian_Telecom_Download_Speed_Mbps		0.177788	0.098213
1.810	0.070		
L4.Selnet_Download_Speed_Mbps		0.094025	0.086445

1.088	0.277		
L4.GSP_Download_Speed_Mbps		-0.064542	0.090113
-0.716	0.474		
L5.All Providers Combined_Download_Speed_Mbps		-0.147429	0.350786
-0.420	0.674		
L5.Baktelekom_Download_Speed_Mbps		-0.010490	0.084570
-0.124	0.901		
L5.Citynet_Download_Speed_Mbps		-0.045103	0.194451
-0.232	0.817		
L5.Aztelekom_Download_Speed_Mbps		-0.051773	0.102805
-0.504	0.615		
L5.KATV_1_Download_Speed_Mbps		-0.092860	0.150821
-0.616	0.538		
L5.Azeronline_Download_Speed_Mbps		-0.024417	0.060418
-0.404	0.686		
L5.EngiNet_Download_Speed_Mbps		0.006903	0.128363
0.054	0.957		
L5.Delta Telecom_Download_Speed_Mbps		-0.310335	0.230526
-1.346	0.178		
L5.Caspian Telecom_Download_Speed_Mbps		0.174634	0.100857
1.731	0.083		
L5.Selnet_Download_Speed_Mbps		0.161918	0.099372
1.629	0.103		
L5.GSP_Download_Speed_Mbps		-0.086885	0.093108
-0.933	0.351		
L6.All Providers Combined_Download_Speed_Mbps		-0.279361	0.316078
-0.884	0.377		
L6.Baktelekom_Download_Speed_Mbps		0.076020	0.082162
0.925	0.355		
L6.Citynet_Download_Speed_Mbps		0.059102	0.188351
0.314	0.754		
L6.Aztelekom_Download_Speed_Mbps		-0.009232	0.091488
-0.101	0.920		
L6.KATV_1_Download_Speed_Mbps		-0.071263	0.143716
-0.496	0.620		
L6.Azeronline_Download_Speed_Mbps		0.043947	0.057536
0.764	0.445		
L6.EngiNet_Download_Speed_Mbps		-0.118749	0.113112
-1.050	0.294		
L6.Delta Telecom_Download_Speed_Mbps		-0.160589	0.227729
-0.705	0.481		
L6.Caspian Telecom_Download_Speed_Mbps		0.149954	0.092202
1.626	0.104		
L6.Selnet_Download_Speed_Mbps		0.047517	0.098883
0.481	0.631		
L6.GSP_Download_Speed_Mbps		0.018329	0.087637
0.209	0.834		
L7.All Providers Combined_Download_Speed_Mbps		-0.433848	0.311708
-1.392	0.164		
L7.Baktelekom_Download_Speed_Mbps		0.208620	0.077297
2.699	0.007		
L7.Citynet_Download_Speed_Mbps		0.033500	0.160793
0.208	0.835		
L7.Aztelekom_Download_Speed_Mbps		-0.003848	0.067696
-0.057	0.955		
L7.KATV_1_Download_Speed_Mbps		-0.014346	0.142548

-0.101	0.920		
L7.Azeronline_Download_Speed_Mbps		0.026560	0.054983
0.483	0.629		
L7.EngiNet_Download_Speed_Mbps		-0.055101	0.083006
-0.664	0.507		
L7.Delta Telecom_Download_Speed_Mbps		-0.184946	0.178633
-1.035	0.301		
L7.Caspian Telecom_Download_Speed_Mbps		0.046398	0.068271
0.680	0.497		
L7.Selnet_Download_Speed_Mbps		0.109514	0.086121
1.272	0.204		
L7.GSP_Download_Speed_Mbps		-0.040301	0.095790
-0.421	0.674		

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Results for equation Baktelekom_Download_Speed_Mbps

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t-stat	prob	coefficient	std. error

const		0.584541	0.744089
0.786	0.432		
L1.All Providers Combined_Download_Speed_Mbps		-0.206888	0.791998
-0.261	0.794		
L1.Baktelekom_Download_Speed_Mbps		-0.573890	0.194222
-2.955	0.003		
L1.Citynet_Download_Speed_Mbps		0.039334	0.400148
0.098	0.922		
L1.Aztelekom_Download_Speed_Mbps		-0.294898	0.197658
-1.492	0.136		
L1.KATV 1_Download_Speed_Mbps		-0.542972	0.377393
-1.439	0.150		
L1.Azeronline_Download_Speed_Mbps		-0.035999	0.128836
-0.279	0.780		
L1.EngiNet_Download_Speed_Mbps		0.330605	0.299479
1.104	0.270		
L1.Delta Telecom_Download_Speed_Mbps		0.330677	0.636148
0.520	0.603		
L1.Caspian Telecom_Download_Speed_Mbps		0.032481	0.228934
0.142	0.887		
L1.Selnet_Download_Speed_Mbps		-0.043238	0.252255
-0.171	0.864		
L1.GSP_Download_Speed_Mbps		-0.040723	0.219097
-0.186	0.853		
L2.All Providers Combined_Download_Speed_Mbps		1.085177	0.921564
1.178	0.239		
L2.Baktelekom_Download_Speed_Mbps		-0.698632	0.259978
-2.687	0.007		
L2.Citynet_Download_Speed_Mbps		-0.757551	0.508939
-1.488	0.137		
L2.Aztelekom_Download_Speed_Mbps		-0.202242	0.258499
-0.782	0.434		
L2.KATV 1_Download_Speed_Mbps		-0.863569	0.502753

-1.718	0.086		
L2.Azeronline_Download_Speed_Mbps		0.046655	0.149407
0.312	0.755		
L2.EngiNet_Download_Speed_Mbps		0.286677	0.315184
0.910	0.363		
L2.Delta Telecom_Download_Speed_Mbps		-0.248644	0.689696
-0.361	0.718		
L2.Caspian Telecom_Download_Speed_Mbps		-0.094964	0.271251
-0.350	0.726		
L2.Selnet_Download_Speed_Mbps		0.155754	0.240402
0.648	0.517		
L2.GSP_Download_Speed_Mbps		-0.360191	0.272357
-1.322	0.186		
L3.All Providers Combined_Download_Speed_Mbps		0.190513	1.036078
0.184	0.854		
L3.Baktelekom_Download_Speed_Mbps		-0.468213	0.258533
-1.811	0.070		
L3.Citynet_Download_Speed_Mbps		-0.278630	0.530254
-0.525	0.599		
L3.Aztelekom_Download_Speed_Mbps		-0.035286	0.307955
-0.115	0.909		
L3.KATV 1_Download_Speed_Mbps		-0.372072	0.538253
-0.691	0.489		
L3.Azeronline_Download_Speed_Mbps		0.198516	0.169875
1.169	0.243		
L3.EngiNet_Download_Speed_Mbps		0.334415	0.349983
0.956	0.339		
L3.Delta Telecom_Download_Speed_Mbps		-0.172561	0.685852
-0.252	0.801		
L3.Caspian Telecom_Download_Speed_Mbps		-0.215085	0.287720
-0.748	0.455		
L3.Selnet_Download_Speed_Mbps		-0.087189	0.262915
-0.332	0.740		
L3.GSP_Download_Speed_Mbps		-0.123322	0.272658
-0.452	0.651		
L4.All Providers Combined_Download_Speed_Mbps		-0.001122	1.075596
-0.001	0.999		
L4.Baktelekom_Download_Speed_Mbps		-0.375511	0.260712
-1.440	0.150		
L4.Citynet_Download_Speed_Mbps		-0.758128	0.608689
-1.246	0.213		
L4.Aztelekom_Download_Speed_Mbps		-0.420075	0.316655
-1.327	0.185		
L4.KATV 1_Download_Speed_Mbps		-0.194046	0.485286
-0.400	0.689		
L4.Azeronline_Download_Speed_Mbps		0.254600	0.171454
1.485	0.138		
L4.EngiNet_Download_Speed_Mbps		0.436842	0.381156
1.146	0.252		
L4.Delta Telecom_Download_Speed_Mbps		-0.914356	0.746331
-1.225	0.221		
L4.Caspian Telecom_Download_Speed_Mbps		0.133333	0.291232
0.458	0.647		
L4.Selnet_Download_Speed_Mbps		-0.105895	0.256337
-0.413	0.680		
L4.GSP_Download_Speed_Mbps		-0.113123	0.267212

-0.423	0.672		
L5.All Providers Combined_Download_Speed_Mbps	0.008191	1.040189	
0.008	0.994		
L5.Baktelekom_Download_Speed_Mbps	-0.422037	0.250775	
-1.683	0.092		
L5.Citynet_Download_Speed_Mbps	-0.279163	0.576607	
-0.484	0.628		
L5.Aztelekom_Download_Speed_Mbps	-0.165919	0.304849	
-0.544	0.586		
L5.KATV_1_Download_Speed_Mbps	-0.261266	0.447230	
-0.584	0.559		
L5.Azeronline_Download_Speed_Mbps	0.041002	0.179157	
0.229	0.819		
L5.EngiNet_Download_Speed_Mbps	0.519437	0.380636	
1.365	0.172		
L5.Delta Telecom_Download_Speed_Mbps	-0.509860	0.683582	
-0.746	0.456		
L5.Caspian Telecom_Download_Speed_Mbps	0.317183	0.299074	
1.061	0.289		
L5.Selnet_Download_Speed_Mbps	0.193816	0.294670	
0.658	0.511		
L5.GSP_Download_Speed_Mbps	-0.570739	0.276093	
-2.067	0.039		
L6.All Providers Combined_Download_Speed_Mbps	-0.759633	0.937268	
-0.810	0.418		
L6.Baktelekom_Download_Speed_Mbps	-0.030820	0.243636	
-0.127	0.899		
L6.Citynet_Download_Speed_Mbps	-0.096825	0.558520	
-0.173	0.862		
L6.Aztelekom_Download_Speed_Mbps	-0.044985	0.271289	
-0.166	0.868		
L6.KATV_1_Download_Speed_Mbps	-0.010097	0.426161	
-0.024	0.981		
L6.Azeronline_Download_Speed_Mbps	0.228671	0.170611	
1.340	0.180		
L6.EngiNet_Download_Speed_Mbps	0.037249	0.335412	
0.111	0.912		
L6.Delta Telecom_Download_Speed_Mbps	-0.113220	0.675288	
-0.168	0.867		
L6.Caspian Telecom_Download_Speed_Mbps	0.076284	0.273406	
0.279	0.780		
L6.Selnet_Download_Speed_Mbps	0.107295	0.293219	
0.366	0.714		
L6.GSP_Download_Speed_Mbps	0.047693	0.259869	
0.184	0.854		
L7.All Providers Combined_Download_Speed_Mbps	-1.393667	0.924311	
-1.508	0.132		
L7.Baktelekom_Download_Speed_Mbps	0.178136	0.229210	
0.777	0.437		
L7.Citynet_Download_Speed_Mbps	-0.034144	0.476802	
-0.072	0.943		
L7.Aztelekom_Download_Speed_Mbps	-0.037681	0.200738	
-0.188	0.851		
L7.KATV_1_Download_Speed_Mbps	0.032209	0.422698	
0.076	0.939		
L7.Azeronline_Download_Speed_Mbps	-0.005014	0.163040	

-0.031	0.975		
L7.EngiNet_Download_Speed_Mbps		0.240195	0.246140
0.976	0.329		
L7.Delta Telecom_Download_Speed_Mbps		0.067551	0.529701
0.128	0.899		
L7.Caspian Telecom_Download_Speed_Mbps		0.090025	0.202443
0.445	0.657		
L7.Selnet_Download_Speed_Mbps		0.044759	0.255377
0.175	0.861		
L7.GSP_Download_Speed_Mbps		0.052639	0.284047
0.185	0.853		

Results for equation Citynet_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.010418	0.277922
0.037	0.970		
L1.All Providers Combined_Download_Speed_Mbps		0.116759	0.295816
0.395	0.693		
L1.Baktelekom_Download_Speed_Mbps		-0.054679	0.072543
-0.754	0.451		
L1.Citynet_Download_Speed_Mbps		-0.691896	0.149458
-4.629	0.000		
L1.Aztelekom_Download_Speed_Mbps		0.114731	0.073827
1.554	0.120		
L1.KATV_1_Download_Speed_Mbps		0.209000	0.140959
1.483	0.138		
L1.Azeronline_Download_Speed_Mbps		-0.031184	0.048121
-0.648	0.517		
L1.EngiNet_Download_Speed_Mbps		-0.084758	0.111857
-0.758	0.449		
L1.Delta Telecom_Download_Speed_Mbps		-0.041615	0.237605
-0.175	0.861		
L1.Caspian Telecom_Download_Speed_Mbps		0.014962	0.085508
0.175	0.861		
L1.Selnet_Download_Speed_Mbps		0.038048	0.094219
0.404	0.686		
L1.GSP_Download_Speed_Mbps		-0.010234	0.081834
-0.125	0.900		
L2.All Providers Combined_Download_Speed_Mbps		-0.342404	0.344210
-0.995	0.320		
L2.Baktelekom_Download_Speed_Mbps		0.014013	0.097103
0.144	0.885		
L2.Citynet_Download_Speed_Mbps		-0.370232	0.190092
-1.948	0.051		
L2.Aztelekom_Download_Speed_Mbps		0.097733	0.096551
1.012	0.311		
L2.KATV_1_Download_Speed_Mbps		0.264860	0.187781
1.410	0.158		
L2.Azeronline_Download_Speed_Mbps		0.003560	0.055804

0.064	0.949		
L2.EngiNet_Download_Speed_Mbps		-0.104765	0.117723
-0.890	0.374		
L2.Delta Telecom_Download_Speed_Mbps		0.219545	0.257606
0.852	0.394		
L2.Caspian Telecom_Download_Speed_Mbps		-0.075426	0.101314
-0.744	0.457		
L2.Selnet_Download_Speed_Mbps		0.119650	0.089792
1.333	0.183		
L2.GSP_Download_Speed_Mbps		0.042013	0.101727
0.413	0.680		
L3.All Providers Combined_Download_Speed_Mbps		0.197870	0.386982
0.511	0.609		
L3.Baktelekom_Download_Speed_Mbps		-0.071992	0.096564
-0.746	0.456		
L3.Citynet_Download_Speed_Mbps		-0.281798	0.198053
-1.423	0.155		
L3.Aztelekom_Download_Speed_Mbps		-0.072604	0.115023
-0.631	0.528		
L3.KATV 1_Download_Speed_Mbps		-0.108497	0.201041
-0.540	0.589		
L3.Azeronline_Download_Speed_Mbps		-0.097741	0.063449
-1.540	0.123		
L3.EngiNet_Download_Speed_Mbps		-0.226201	0.130721
-1.730	0.084		
L3.Delta Telecom_Download_Speed_Mbps		0.546850	0.256170
2.135	0.033		
L3.Caspian Telecom_Download_Speed_Mbps		0.083138	0.107465
0.774	0.439		
L3.Selnet_Download_Speed_Mbps		0.146446	0.098200
1.491	0.136		
L3.GSP_Download_Speed_Mbps		-0.076426	0.101840
-0.750	0.453		
L4.All Providers Combined_Download_Speed_Mbps		0.382933	0.401742
0.953	0.340		
L4.Baktelekom_Download_Speed_Mbps		-0.074199	0.097378
-0.762	0.446		
L4.Citynet_Download_Speed_Mbps		-0.049779	0.227349
-0.219	0.827		
L4.Aztelekom_Download_Speed_Mbps		-0.145265	0.118273
-1.228	0.219		
L4.KATV 1_Download_Speed_Mbps		-0.224798	0.181257
-1.240	0.215		
L4.Azeronline_Download_Speed_Mbps		-0.081399	0.064039
-1.271	0.204		
L4.EngiNet_Download_Speed_Mbps		-0.304727	0.142364
-2.140	0.032		
L4.Delta Telecom_Download_Speed_Mbps		0.173886	0.278759
0.624	0.533		
L4.Caspian Telecom_Download_Speed_Mbps		0.045808	0.108777
0.421	0.674		
L4.Selnet_Download_Speed_Mbps		0.203943	0.095743
2.130	0.033		
L4.GSP_Download_Speed_Mbps		-0.054738	0.099805
-0.548	0.583		
L5.All Providers Combined_Download_Speed_Mbps		0.319525	0.388517

0.822	0.411		
L5.Baktelekom_Download_Speed_Mbps		0.044256	0.093666
0.472	0.637		
L5.Citynet_Download_Speed_Mbps		-0.051883	0.215367
-0.241	0.810		
L5.Aztelekom_Download_Speed_Mbps		-0.095249	0.113863
-0.837	0.403		
L5.KATV_1_Download_Speed_Mbps		-0.151369	0.167043
-0.906	0.365		
L5.Azeronline_Download_Speed_Mbps		-0.081901	0.066916
-1.224	0.221		
L5.EngiNet_Download_Speed_Mbps		-0.297527	0.142170
-2.093	0.036		
L5.Delta Telecom_Download_Speed_Mbps		-0.153761	0.255322
-0.602	0.547		
L5.Caspian Telecom_Download_Speed_Mbps		0.044160	0.111706
0.395	0.693		
L5.Selnet_Download_Speed_Mbps		0.062676	0.110061
0.569	0.569		
L5.GSP_Download_Speed_Mbps		0.125341	0.103123
1.215	0.224		
L6.All Providers Combined_Download_Speed_Mbps		0.052121	0.350076
0.149	0.882		
L6.Baktelekom_Download_Speed_Mbps		0.078354	0.091000
0.861	0.389		
L6.Citynet_Download_Speed_Mbps		0.025266	0.208611
0.121	0.904		
L6.Aztelekom_Download_Speed_Mbps		-0.113948	0.101328
-1.125	0.261		
L6.KATV_1_Download_Speed_Mbps		-0.076901	0.159174
-0.483	0.629		
L6.Azeronline_Download_Speed_Mbps		0.041404	0.063724
0.650	0.516		
L6.EngiNet_Download_Speed_Mbps		-0.125731	0.125279
-1.004	0.316		
L6.Delta Telecom_Download_Speed_Mbps		-0.309308	0.252224
-1.226	0.220		
L6.Caspian Telecom_Download_Speed_Mbps		0.072400	0.102119
0.709	0.478		
L6.Selnet_Download_Speed_Mbps		0.120606	0.109519
1.101	0.271		
L6.GSP_Download_Speed_Mbps		0.065375	0.097063
0.674	0.501		
L7.All Providers Combined_Download_Speed_Mbps		0.657281	0.345236
1.904	0.057		
L7.Baktelekom_Download_Speed_Mbps		0.038359	0.085611
0.448	0.654		
L7.Citynet_Download_Speed_Mbps		-0.173350	0.178089
-0.973	0.330		
L7.Aztelekom_Download_Speed_Mbps		-0.198847	0.074977
-2.652	0.008		
L7.KATV_1_Download_Speed_Mbps		-0.190916	0.157880
-1.209	0.227		
L7.Azeronline_Download_Speed_Mbps		0.013452	0.060897
0.221	0.825		
L7.EngiNet_Download_Speed_Mbps		-0.092656	0.091935

-1.008	0.314		
L7.Delta Telecom_Download_Speed_Mbps		-0.477425	0.197847
-2.413	0.016		
L7.Caspian Telecom_Download_Speed_Mbps		-0.007471	0.075614
-0.099	0.921		
L7.Selnet_Download_Speed_Mbps		0.161516	0.095385
1.693	0.090		
L7.GSP_Download_Speed_Mbps		-0.009967	0.106093
-0.094	0.925		

Results for equation Aztelekom_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.181811	0.617102
0.295	0.768		
L1.All Providers Combined_Download_Speed_Mbps		1.209497	0.656835
1.841	0.066		
L1.Baktelekom_Download_Speed_Mbps		-0.037740	0.161076
-0.234	0.815		
L1.Citynet_Download_Speed_Mbps		-0.278092	0.331859
-0.838	0.402		
L1.Aztelekom_Download_Speed_Mbps		-0.949049	0.163926
-5.790	0.000		
L1.KATV_1_Download_Speed_Mbps		-0.370269	0.312986
-1.183	0.237		
L1.Azeronline_Download_Speed_Mbps		-0.121318	0.106848
-1.135	0.256		
L1.EngiNet_Download_Speed_Mbps		0.133594	0.248370
0.538	0.591		
L1.Delta Telecom_Download_Speed_Mbps		-0.327429	0.527582
-0.621	0.535		
L1.Caspian Telecom_Download_Speed_Mbps		0.056766	0.189864
0.299	0.765		
L1.Selnet_Download_Speed_Mbps		0.055026	0.209205
0.263	0.793		
L1.GSP_Download_Speed_Mbps		-0.518287	0.181706
-2.852	0.004		
L2.All Providers Combined_Download_Speed_Mbps		1.111721	0.764289
1.455	0.146		
L2.Baktelekom_Download_Speed_Mbps		0.062331	0.215609
0.289	0.773		
L2.Citynet_Download_Speed_Mbps		-0.402051	0.422083
-0.953	0.341		
L2.Aztelekom_Download_Speed_Mbps		-0.634749	0.214384
-2.961	0.003		
L2.KATV_1_Download_Speed_Mbps		-0.318666	0.416952
-0.764	0.445		
L2.Azeronline_Download_Speed_Mbps		0.102465	0.123909
0.827	0.408		
L2.EngiNet_Download_Speed_Mbps		-0.202032	0.261394

-0.773	0.440		
L2.Delta Telecom_Download_Speed_Mbps		-0.660496	0.571992
-1.155	0.248		
L2.Caspian Telecom_Download_Speed_Mbps		-0.041925	0.224959
-0.186	0.852		
L2.Selnet_Download_Speed_Mbps		-0.201816	0.199374
-1.012	0.311		
L2.GSP_Download_Speed_Mbps		-0.062038	0.225876
-0.275	0.784		
L3.All Providers Combined_Download_Speed_Mbps		0.806663	0.859259
0.939	0.348		
L3.Baktelekom_Download_Speed_Mbps		0.232767	0.214412
1.086	0.278		
L3.Citynet_Download_Speed_Mbps		-0.915141	0.439760
-2.081	0.037		
L3.Aztelekom_Download_Speed_Mbps		-0.600721	0.255399
-2.352	0.019		
L3.KATV_1_Download_Speed_Mbps		-0.006687	0.446394
-0.015	0.988		
L3.Azeronline_Download_Speed_Mbps		0.059737	0.140884
0.424	0.672		
L3.EngiNet_Download_Speed_Mbps		0.091603	0.290254
0.316	0.752		
L3.Delta Telecom_Download_Speed_Mbps		-1.334571	0.568803
-2.346	0.019		
L3.Caspian Telecom_Download_Speed_Mbps		0.173826	0.238617
0.728	0.466		
L3.Selnet_Download_Speed_Mbps		-0.214248	0.218045
-0.983	0.326		
L3.GSP_Download_Speed_Mbps		0.039916	0.226126
0.177	0.860		
L4.All Providers Combined_Download_Speed_Mbps		0.231717	0.892033
0.260	0.795		
L4.Baktelekom_Download_Speed_Mbps		0.075827	0.216219
0.351	0.726		
L4.Citynet_Download_Speed_Mbps		-0.228947	0.504809
-0.454	0.650		
L4.Aztelekom_Download_Speed_Mbps		-0.200150	0.262615
-0.762	0.446		
L4.KATV_1_Download_Speed_Mbps		0.010748	0.402466
0.027	0.979		
L4.Azeronline_Download_Speed_Mbps		0.125775	0.142194
0.885	0.376		
L4.EngiNet_Download_Speed_Mbps		0.142159	0.316107
0.450	0.653		
L4.Delta Telecom_Download_Speed_Mbps		-0.327175	0.618961
-0.529	0.597		
L4.Caspian Telecom_Download_Speed_Mbps		0.306583	0.241530
1.269	0.204		
L4.Selnet_Download_Speed_Mbps		-0.046689	0.212590
-0.220	0.826		
L4.GSP_Download_Speed_Mbps		-0.264054	0.221609
-1.192	0.233		
L5.All Providers Combined_Download_Speed_Mbps		0.074346	0.862669
0.086	0.931		
L5.Baktelekom_Download_Speed_Mbps		0.294154	0.207977

1.414	0.157		
L5.Citynet_Download_Speed_Mbps		-0.115992	0.478203
-0.243	0.808		
L5.Aztelekom_Download_Speed_Mbps		-0.047495	0.252823
-0.188	0.851		
L5.KATV_1_Download_Speed_Mbps		-0.223989	0.370905
-0.604	0.546		
L5.Azeronline_Download_Speed_Mbps		0.075336	0.148582
0.507	0.612		
L5.EngiNet_Download_Speed_Mbps		-0.174506	0.315676
-0.553	0.580		
L5.Delta Telecom_Download_Speed_Mbps		0.487934	0.566921
0.861	0.389		
L5.Caspian Telecom_Download_Speed_Mbps		0.140849	0.248033
0.568	0.570		
L5.Selnet_Download_Speed_Mbps		0.031614	0.244381
0.129	0.897		
L5.GSP_Download_Speed_Mbps		0.059414	0.228975
0.259	0.795		
L6.All Providers Combined_Download_Speed_Mbps		-0.563703	0.777313
-0.725	0.468		
L6.Baktelekom_Download_Speed_Mbps		0.206841	0.202057
1.024	0.306		
L6.Citynet_Download_Speed_Mbps		-0.150880	0.463202
-0.326	0.745		
L6.Aztelekom_Download_Speed_Mbps		0.238748	0.224990
1.061	0.289		
L6.KATV_1_Download_Speed_Mbps		0.137892	0.353432
0.390	0.696		
L6.Azeronline_Download_Speed_Mbps		-0.036682	0.141494
-0.259	0.795		
L6.EngiNet_Download_Speed_Mbps		-0.265297	0.278170
-0.954	0.340		
L6.Delta Telecom_Download_Speed_Mbps		0.685515	0.560042
1.224	0.221		
L6.Caspian Telecom_Download_Speed_Mbps		0.063310	0.226746
0.279	0.780		
L6.Selnet_Download_Speed_Mbps		-0.257453	0.243178
-1.059	0.290		
L6.GSP_Download_Speed_Mbps		0.373466	0.215520
1.733	0.083		
L7.All Providers Combined_Download_Speed_Mbps		-0.345700	0.766567
-0.451	0.652		
L7.Baktelekom_Download_Speed_Mbps		0.135150	0.190093
0.711	0.477		
L7.Citynet_Download_Speed_Mbps		0.096513	0.395430
0.244	0.807		
L7.Aztelekom_Download_Speed_Mbps		0.212036	0.166480
1.274	0.203		
L7.KATV_1_Download_Speed_Mbps		0.494655	0.350560
1.411	0.158		
L7.Azeronline_Download_Speed_Mbps		0.065305	0.135216
0.483	0.629		
L7.EngiNet_Download_Speed_Mbps		-0.072541	0.204133
-0.355	0.722		
L7.Delta Telecom_Download_Speed_Mbps		0.049054	0.439302

0.112	0.911		
L7.Caspian Telecom_Download_Speed_Mbps		-0.055112	0.167894
-0.328	0.743		
L7.Selnet_Download_Speed_Mbps		-0.160146	0.211794
-0.756	0.450		
L7.GSP_Download_Speed_Mbps		0.079720	0.235571
0.338	0.735		

Results for equation KATV 1_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.224843	0.303808
0.740	0.459		
L1.All Providers Combined_Download_Speed_Mbps		0.113535	0.323369
0.351	0.726		
L1.Baktelekom_Download_Speed_Mbps		-0.056631	0.079300
-0.714	0.475		
L1.Citynet_Download_Speed_Mbps		-0.383423	0.163379
-2.347	0.019		
L1.Aztelekom_Download_Speed_Mbps		-0.002172	0.080703
-0.027	0.979		
L1.KATV 1_Download_Speed_Mbps		-0.620414	0.154088
-4.026	0.000		
L1.Azeronline_Download_Speed_Mbps		0.011479	0.052603
0.218	0.827		
L1.EngiNet_Download_Speed_Mbps		0.073958	0.122276
0.605	0.545		
L1.Delta Telecom_Download_Speed_Mbps		-0.438508	0.259736
-1.688	0.091		
L1.Caspian Telecom_Download_Speed_Mbps		0.190378	0.093473
2.037	0.042		
L1.Selnet_Download_Speed_Mbps		-0.139666	0.102995
-1.356	0.175		
L1.GSP_Download_Speed_Mbps		0.163984	0.089456
1.833	0.067		
L2.All Providers Combined_Download_Speed_Mbps		-0.516263	0.376270
-1.372	0.170		
L2.Baktelekom_Download_Speed_Mbps		0.036409	0.106148
0.343	0.732		
L2.Citynet_Download_Speed_Mbps		0.136166	0.207797
0.655	0.512		
L2.Aztelekom_Download_Speed_Mbps		-0.007012	0.105544
-0.066	0.947		
L2.KATV 1_Download_Speed_Mbps		-0.207001	0.205272
-1.008	0.313		
L2.Azeronline_Download_Speed_Mbps		0.142071	0.061002
2.329	0.020		
L2.EngiNet_Download_Speed_Mbps		0.229797	0.128688
1.786	0.074		
L2.Delta Telecom_Download_Speed_Mbps		-0.156596	0.281600

-0.556	0.578		
L2.Caspian Telecom_Download_Speed_Mbps		0.207686	0.110751
1.875	0.061		
L2.Selnet_Download_Speed_Mbps		0.146964	0.098155
1.497	0.134		
L2.GSP_Download_Speed_Mbps		-0.110816	0.111202
-0.997	0.319		
L3.All Providers Combined_Download_Speed_Mbps		-0.457812	0.423026
-1.082	0.279		
L3.Baktelekom_Download_Speed_Mbps		0.086396	0.105558
0.818	0.413		
L3.Citynet_Download_Speed_Mbps		-0.163784	0.216500
-0.757	0.449		
L3.Aztelekom_Download_Speed_Mbps		-0.013710	0.125737
-0.109	0.913		
L3.KATV 1_Download_Speed_Mbps		-0.459385	0.219766
-2.090	0.037		
L3.Azeronline_Download_Speed_Mbps		0.164384	0.069359
2.370	0.018		
L3.EngiNet_Download_Speed_Mbps		0.258773	0.142896
1.811	0.070		
L3.Delta Telecom_Download_Speed_Mbps		-0.131717	0.280030
-0.470	0.638		
L3.Caspian Telecom_Download_Speed_Mbps		0.221788	0.117475
1.888	0.059		
L3.Selnet_Download_Speed_Mbps		-0.031450	0.107347
-0.293	0.770		
L3.GSP_Download_Speed_Mbps		-0.035715	0.111325
-0.321	0.748		
L4.All Providers Combined_Download_Speed_Mbps		-0.273352	0.439161
-0.622	0.534		
L4.Baktelekom_Download_Speed_Mbps		0.099325	0.106448
0.933	0.351		
L4.Citynet_Download_Speed_Mbps		-0.400896	0.248525
-1.613	0.107		
L4.Aztelekom_Download_Speed_Mbps		-0.029073	0.129289
-0.225	0.822		
L4.KATV 1_Download_Speed_Mbps		-0.442925	0.198140
-2.235	0.025		
L4.Azeronline_Download_Speed_Mbps		0.168520	0.070004
2.407	0.016		
L4.EngiNet_Download_Speed_Mbps		0.174393	0.155624
1.121	0.262		
L4.Delta Telecom_Download_Speed_Mbps		-0.181595	0.304723
-0.596	0.551		
L4.Caspian Telecom_Download_Speed_Mbps		0.206067	0.118909
1.733	0.083		
L4.Selnet_Download_Speed_Mbps		-0.106061	0.104661
-1.013	0.311		
L4.GSP_Download_Speed_Mbps		0.007061	0.109101
0.065	0.948		
L5.All Providers Combined_Download_Speed_Mbps		-0.509086	0.424704
-1.199	0.231		
L5.Baktelekom_Download_Speed_Mbps		-0.022788	0.102390
-0.223	0.824		
L5.Citynet_Download_Speed_Mbps		-0.379017	0.235426

-1.610	0.107		
L5.Aztelekom_Download_Speed_Mbps		-0.101853	0.124468
-0.818	0.413		
L5.KATV_1_Download_Speed_Mbps		0.016802	0.182602
0.092	0.927		
L5.Azeronline_Download_Speed_Mbps		0.114789	0.073149
1.569	0.117		
L5.EngiNet_Download_Speed_Mbps		0.245683	0.155412
1.581	0.114		
L5.Delta Telecom_Download_Speed_Mbps		-0.367952	0.279103
-1.318	0.187		
L5.Caspian Telecom_Download_Speed_Mbps		0.133428	0.122110
1.093	0.275		
L5.Selnet_Download_Speed_Mbps		-0.037719	0.120312
-0.314	0.754		
L5.GSP_Download_Speed_Mbps		0.025706	0.112728
0.228	0.820		
L6.All Providers Combined_Download_Speed_Mbps		0.097316	0.382682
0.254	0.799		
L6.Baktelekom_Download_Speed_Mbps		-0.078657	0.099475
-0.791	0.429		
L6.Citynet_Download_Speed_Mbps		-0.112244	0.228041
-0.492	0.623		
L6.Aztelekom_Download_Speed_Mbps		-0.135498	0.110766
-1.223	0.221		
L6.KATV_1_Download_Speed_Mbps		-0.204859	0.174000
-1.177	0.239		
L6.Azeronline_Download_Speed_Mbps		0.027872	0.069660
0.400	0.689		
L6.EngiNet_Download_Speed_Mbps		0.116533	0.136947
0.851	0.395		
L6.Delta Telecom_Download_Speed_Mbps		0.034404	0.275717
0.125	0.901		
L6.Caspian Telecom_Download_Speed_Mbps		0.161115	0.111631
1.443	0.149		
L6.Selnet_Download_Speed_Mbps		-0.015571	0.119720
-0.130	0.897		
L6.GSP_Download_Speed_Mbps		-0.126126	0.106103
-1.189	0.235		
L7.All Providers Combined_Download_Speed_Mbps		-0.690390	0.377392
-1.829	0.067		
L7.Baktelekom_Download_Speed_Mbps		0.241985	0.093585
2.586	0.010		
L7.Citynet_Download_Speed_Mbps		0.023845	0.194676
0.122	0.903		
L7.Aztelekom_Download_Speed_Mbps		-0.037860	0.081960
-0.462	0.644		
L7.KATV_1_Download_Speed_Mbps		-0.116834	0.172586
-0.677	0.498		
L7.Azeronline_Download_Speed_Mbps		0.129763	0.066569
1.949	0.051		
L7.EngiNet_Download_Speed_Mbps		-0.028010	0.100498
-0.279	0.780		
L7.Delta Telecom_Download_Speed_Mbps		0.018716	0.216275
0.087	0.931		
L7.Caspian Telecom_Download_Speed_Mbps		0.157073	0.082657

1.900	0.057		
L7.Selnet_Download_Speed_Mbps		0.024052	0.104269
0.231	0.818		
L7.GSP_Download_Speed_Mbps		0.028628	0.115975
0.247	0.805		

Results for equation Azeronline_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.768810	0.981079
0.784	0.433		
L1.All Providers Combined_Download_Speed_Mbps		-1.454324	1.044248
-1.393	0.164		
L1.Baktelekom_Download_Speed_Mbps		0.053518	0.256082
0.209	0.834		
L1.Citynet_Download_Speed_Mbps		-0.475650	0.527595
-0.902	0.367		
L1.Aztelekom_Download_Speed_Mbps		0.209889	0.260612
0.805	0.421		
L1.KATV 1_Download_Speed_Mbps		0.649460	0.497591
1.305	0.192		
L1.Azeronline_Download_Speed_Mbps		-0.614849	0.169869
-3.620	0.000		
L1.EngiNet_Download_Speed_Mbps		0.288854	0.394863
0.732	0.464		
L1.Delta Telecom_Download_Speed_Mbps		-0.768966	0.838759
-0.917	0.359		
L1.Caspian Telecom_Download_Speed_Mbps		0.502077	0.301849
1.663	0.096		
L1.Selnet_Download_Speed_Mbps		0.312126	0.332598
0.938	0.348		
L1.GSP_Download_Speed_Mbps		-0.077855	0.288879
-0.270	0.788		
L2.All Providers Combined_Download_Speed_Mbps		-1.454081	1.215080
-1.197	0.231		
L2.Baktelekom_Download_Speed_Mbps		0.302396	0.342780
0.882	0.378		
L2.Citynet_Download_Speed_Mbps		0.676834	0.671035
1.009	0.313		
L2.Aztelekom_Download_Speed_Mbps		-0.000549	0.340831
-0.002	0.999		
L2.KATV 1_Download_Speed_Mbps		0.150576	0.662878
0.227	0.820		
L2.Azeronline_Download_Speed_Mbps		-0.499954	0.196993
-2.538	0.011		
L2.EngiNet_Download_Speed_Mbps		-0.089644	0.415570
-0.216	0.829		
L2.Delta Telecom_Download_Speed_Mbps		0.257222	0.909363
0.283	0.777		
L2.Caspian Telecom_Download_Speed_Mbps		0.406525	0.357644

1.137	0.256		
L2.Selnet_Download_Speed_Mbps		0.562559	0.316969
1.775	0.076		
L2.GSP_Download_Speed_Mbps		-0.349413	0.359102
-0.973	0.331		
L3.All Providers Combined_Download_Speed_Mbps		-1.689667	1.366066
-1.237	0.216		
L3.Baktelekom_Download_Speed_Mbps		0.267322	0.340875
0.784	0.433		
L3.Citynet_Download_Speed_Mbps		-0.501275	0.699138
-0.717	0.473		
L3.Aztelekom_Download_Speed_Mbps		0.040976	0.406038
0.101	0.920		
L3.KATV_1_Download_Speed_Mbps		0.159423	0.709685
0.225	0.822		
L3.Azeronline_Download_Speed_Mbps		-0.233731	0.223979
-1.044	0.297		
L3.EngiNet_Download_Speed_Mbps		-0.332627	0.461451
-0.721	0.471		
L3.Delta Telecom_Download_Speed_Mbps		-0.023192	0.904294
-0.026	0.980		
L3.Caspian Telecom_Download_Speed_Mbps		0.167549	0.379358
0.442	0.659		
L3.Selnet_Download_Speed_Mbps		0.032981	0.346652
0.095	0.924		
L3.GSP_Download_Speed_Mbps		0.315642	0.359499
0.878	0.380		
L4.All Providers Combined_Download_Speed_Mbps		-0.561819	1.418170
-0.396	0.692		
L4.Baktelekom_Download_Speed_Mbps		0.146436	0.343749
0.426	0.670		
L4.Citynet_Download_Speed_Mbps		-0.204792	0.802555
-0.255	0.799		
L4.Aztelekom_Download_Speed_Mbps		-0.228283	0.417509
-0.547	0.585		
L4.KATV_1_Download_Speed_Mbps		-0.176725	0.639848
-0.276	0.782		
L4.Azeronline_Download_Speed_Mbps		-0.273188	0.226062
-1.208	0.227		
L4.EngiNet_Download_Speed_Mbps		-0.453090	0.502553
-0.902	0.367		
L4.Delta Telecom_Download_Speed_Mbps		0.171153	0.984036
0.174	0.862		
L4.Caspian Telecom_Download_Speed_Mbps		0.674733	0.383989
1.757	0.079		
L4.Selnet_Download_Speed_Mbps		0.255006	0.337979
0.755	0.451		
L4.GSP_Download_Speed_Mbps		-0.066783	0.352318
-0.190	0.850		
L5.All Providers Combined_Download_Speed_Mbps		-0.530191	1.371487
-0.387	0.699		
L5.Baktelekom_Download_Speed_Mbps		0.037842	0.330646
0.114	0.909		
L5.Citynet_Download_Speed_Mbps		-0.799698	0.760256
-1.052	0.293		
L5.Aztelekom_Download_Speed_Mbps		-0.372543	0.401942

-0.927	0.354		
L5.KATV_1_Download_Speed_Mbps		-0.422307	0.589672
-0.716	0.474		
L5.Azeronline_Download_Speed_Mbps		-0.066708	0.236218
-0.282	0.778		
L5.EngiNet_Download_Speed_Mbps		-0.148201	0.501867
-0.295	0.768		
L5.Delta_Telecom_Download_Speed_Mbps		-0.693992	0.901301
-0.770	0.441		
L5.Caspian_Telecom_Download_Speed_Mbps		0.744160	0.394328
1.887	0.059		
L5.Selnet_Download_Speed_Mbps		0.685047	0.388521
1.763	0.078		
L5.GSP_Download_Speed_Mbps		-0.166484	0.364028
-0.457	0.647		
L6.All_Providers_Combined_Download_Speed_Mbps		-1.624640	1.235786
-1.315	0.189		
L6.Baktelekom_Download_Speed_Mbps		0.398706	0.321233
1.241	0.215		
L6.Citynet_Download_Speed_Mbps		-0.455039	0.736407
-0.618	0.537		
L6.Aztelekom_Download_Speed_Mbps		-0.047962	0.357693
-0.134	0.893		
L6.KATV_1_Download_Speed_Mbps		-0.313818	0.561893
-0.559	0.577		
L6.Azeronline_Download_Speed_Mbps		0.019650	0.224950
0.087	0.930		
L6.EngiNet_Download_Speed_Mbps		-0.285044	0.442240
-0.645	0.519		
L6.Delta_Telecom_Download_Speed_Mbps		0.248950	0.890366
0.280	0.780		
L6.Caspian_Telecom_Download_Speed_Mbps		0.912366	0.360486
2.531	0.011		
L6.Selnet_Download_Speed_Mbps		-0.098125	0.386609
-0.254	0.800		
L6.GSP_Download_Speed_Mbps		-0.157076	0.342637
-0.458	0.647		
L7.All_Providers_Combined_Download_Speed_Mbps		-2.371340	1.218702
-1.946	0.052		
L7.Baktelekom_Download_Speed_Mbps		0.614188	0.302213
2.032	0.042		
L7.Citynet_Download_Speed_Mbps		0.349291	0.628662
0.556	0.578		
L7.Aztelekom_Download_Speed_Mbps		-0.213012	0.264673
-0.805	0.421		
L7.KATV_1_Download_Speed_Mbps		0.426421	0.557327
0.765	0.444		
L7.Azeronline_Download_Speed_Mbps		0.300050	0.214968
1.396	0.163		
L7.EngiNet_Download_Speed_Mbps		-0.004140	0.324534
-0.013	0.990		
L7.Delta_Telecom_Download_Speed_Mbps		-0.357983	0.698410
-0.513	0.608		
L7.Caspian_Telecom_Download_Speed_Mbps		0.549639	0.266921
2.059	0.039		
L7.Selnet_Download_Speed_Mbps		0.422250	0.336714

1.254	0.210		
L7.GSP_Download_Speed_Mbps		-0.149651	0.374515
-0.400	0.689		

Results for equation EngiNet_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.214081	0.424738
0.504	0.614		
L1.All Providers Combined_Download_Speed_Mbps		-0.424168	0.452085
-0.938	0.348		
L1.Baktelekom_Download_Speed_Mbps		0.258776	0.110865
2.334	0.020		
L1.Citynet_Download_Speed_Mbps		0.227086	0.228411
0.994	0.320		
L1.Aztelekom_Download_Speed_Mbps		-0.111427	0.112826
-0.988	0.323		
L1.KATV 1_Download_Speed_Mbps		0.656655	0.215422
3.048	0.002		
L1.Azeronline_Download_Speed_Mbps		-0.119408	0.073541
-1.624	0.104		
L1.EngiNet_Download_Speed_Mbps		-0.662065	0.170948
-3.873	0.000		
L1.Delta Telecom_Download_Speed_Mbps		0.278285	0.363123
0.766	0.443		
L1.Caspian Telecom_Download_Speed_Mbps		-0.138125	0.130679
-1.057	0.291		
L1.Selnet_Download_Speed_Mbps		-0.141733	0.143991
-0.984	0.325		
L1.GSP_Download_Speed_Mbps		0.152588	0.125064
1.220	0.222		
L2.All Providers Combined_Download_Speed_Mbps		1.029173	0.526044
1.956	0.050		
L2.Baktelekom_Download_Speed_Mbps		-0.087162	0.148399
-0.587	0.557		
L2.Citynet_Download_Speed_Mbps		0.058614	0.290511
0.202	0.840		
L2.Aztelekom_Download_Speed_Mbps		-0.154637	0.147556
-1.048	0.295		
L2.KATV 1_Download_Speed_Mbps		0.162762	0.286979
0.567	0.571		
L2.Azeronline_Download_Speed_Mbps		-0.119502	0.085284
-1.401	0.161		
L2.EngiNet_Download_Speed_Mbps		-0.662076	0.179912
-3.680	0.000		
L2.Delta Telecom_Download_Speed_Mbps		0.316646	0.393690
0.804	0.421		
L2.Caspian Telecom_Download_Speed_Mbps		-0.212482	0.154835
-1.372	0.170		
L2.Selnet_Download_Speed_Mbps		0.019149	0.137225

0.140	0.889		
L2.GSP_Download_Speed_Mbps		-0.166097	0.155466
-1.068	0.285		
L3.All Providers Combined_Download_Speed_Mbps		1.070644	0.591410
1.810	0.070		
L3.Baktelekom_Download_Speed_Mbps		-0.057506	0.147575
-0.390	0.697		
L3.Citynet_Download_Speed_Mbps		-0.012440	0.302677
-0.041	0.967		
L3.Aztelekom_Download_Speed_Mbps		-0.178345	0.175786
-1.015	0.310		
L3.KATV_1_Download_Speed_Mbps		-0.242850	0.307243
-0.790	0.429		
L3.Azeronline_Download_Speed_Mbps		-0.152308	0.096967
-1.571	0.116		
L3.EngiNet_Download_Speed_Mbps		-0.830364	0.199776
-4.156	0.000		
L3.Delta Telecom_Download_Speed_Mbps		0.698343	0.391495
1.784	0.074		
L3.Caspian Telecom_Download_Speed_Mbps		-0.186072	0.164235
-1.133	0.257		
L3.Selnet_Download_Speed_Mbps		0.122167	0.150076
0.814	0.416		
L3.GSP_Download_Speed_Mbps		-0.040624	0.155638
-0.261	0.794		
L4.All Providers Combined_Download_Speed_Mbps		0.748096	0.613967
1.218	0.223		
L4.Baktelekom_Download_Speed_Mbps		0.011575	0.148819
0.078	0.938		
L4.Citynet_Download_Speed_Mbps		-0.393740	0.347449
-1.133	0.257		
L4.Aztelekom_Download_Speed_Mbps		-0.397900	0.180752
-2.201	0.028		
L4.KATV_1_Download_Speed_Mbps		-0.257628	0.277009
-0.930	0.352		
L4.Azeronline_Download_Speed_Mbps		-0.041744	0.097869
-0.427	0.670		
L4.EngiNet_Download_Speed_Mbps		-0.719602	0.217570
-3.307	0.001		
L4.Delta Telecom_Download_Speed_Mbps		0.022726	0.426018
0.053	0.957		
L4.Caspian Telecom_Download_Speed_Mbps		-0.176042	0.166240
-1.059	0.290		
L4.Selnet_Download_Speed_Mbps		-0.244850	0.146321
-1.673	0.094		
L4.GSP_Download_Speed_Mbps		0.272524	0.152529
1.787	0.074		
L5.All Providers Combined_Download_Speed_Mbps		1.297613	0.593757
2.185	0.029		
L5.Baktelekom_Download_Speed_Mbps		-0.156678	0.143146
-1.095	0.274		
L5.Citynet_Download_Speed_Mbps		-0.267205	0.329137
-0.812	0.417		
L5.Aztelekom_Download_Speed_Mbps		-0.226891	0.174013
-1.304	0.192		
L5.KATV_1_Download_Speed_Mbps		-0.236475	0.255286

-0.926	0.354		
L5.Azeronline_Download_Speed_Mbps		-0.179897	0.102265
-1.759	0.079		
L5.EngiNet_Download_Speed_Mbps		-0.296399	0.217273
-1.364	0.173		
L5.Delta Telecom_Download_Speed_Mbps		-0.076532	0.390199
-0.196	0.845		
L5.Caspian Telecom_Download_Speed_Mbps		-0.212803	0.170716
-1.247	0.213		
L5.Selnet_Download_Speed_Mbps		-0.039976	0.168202
-0.238	0.812		
L5.GSP_Download_Speed_Mbps		0.028896	0.157598
0.183	0.855		
L6.All Providers Combined_Download_Speed_Mbps		0.941420	0.535008
1.760	0.078		
L6.Baktelekom_Download_Speed_Mbps		-0.007778	0.139071
-0.056	0.955		
L6.Citynet_Download_Speed_Mbps		-0.436504	0.318812
-1.369	0.171		
L6.Aztelekom_Download_Speed_Mbps		-0.109552	0.154856
-0.707	0.479		
L6.KATV 1_Download_Speed_Mbps		-0.165240	0.243260
-0.679	0.497		
L6.Azeronline_Download_Speed_Mbps		0.014662	0.097387
0.151	0.880		
L6.EngiNet_Download_Speed_Mbps		-0.354654	0.191459
-1.852	0.064		
L6.Delta Telecom_Download_Speed_Mbps		-0.244917	0.385465
-0.635	0.525		
L6.Caspian Telecom_Download_Speed_Mbps		-0.231071	0.156065
-1.481	0.139		
L6.Selnet_Download_Speed_Mbps		0.154981	0.167374
0.926	0.354		
L6.GSP_Download_Speed_Mbps		0.389111	0.148338
2.623	0.009		
L7.All Providers Combined_Download_Speed_Mbps		-0.151124	0.527612
-0.286	0.775		
L7.Baktelekom_Download_Speed_Mbps		0.170300	0.130837
1.302	0.193		
L7.Citynet_Download_Speed_Mbps		-0.164284	0.272166
-0.604	0.546		
L7.Aztelekom_Download_Speed_Mbps		-0.094813	0.114585
-0.827	0.408		
L7.KATV 1_Download_Speed_Mbps		-0.179883	0.241283
-0.746	0.456		
L7.Azeronline_Download_Speed_Mbps		0.038018	0.093066
0.409	0.683		
L7.EngiNet_Download_Speed_Mbps		-0.030540	0.140500
-0.217	0.828		
L7.Delta Telecom_Download_Speed_Mbps		-0.357375	0.302362
-1.182	0.237		
L7.Caspian Telecom_Download_Speed_Mbps		-0.132193	0.115558
-1.144	0.253		
L7.Selnet_Download_Speed_Mbps		0.218573	0.145773
1.499	0.134		
L7.GSP_Download_Speed_Mbps		-0.041281	0.162139

-0.255 0.799

Results for equation Delta Telecom_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		-0.040820	0.192514
-0.212	0.832		
L1.All Providers Combined_Download_Speed_Mbps		-0.364696	0.204909
-1.780	0.075		
L1.Baktelekom_Download_Speed_Mbps		0.153469	0.050250
3.054	0.002		
L1.Citynet_Download_Speed_Mbps		0.059485	0.103528
0.575	0.566		
L1.Aztelekom_Download_Speed_Mbps		0.040599	0.051139
0.794	0.427		
L1.KATV_1_Download_Speed_Mbps		0.221279	0.097641
2.266	0.023		
L1.Azeronline_Download_Speed_Mbps		0.033552	0.033333
1.007	0.314		
L1.EngiNet_Download_Speed_Mbps		0.051955	0.077483
0.671	0.503		
L1.Delta Telecom_Download_Speed_Mbps		-0.648914	0.164587
-3.943	0.000		
L1.Caspian Telecom_Download_Speed_Mbps		-0.026091	0.059231
-0.440	0.660		
L1.Selnet_Download_Speed_Mbps		0.081921	0.065265
1.255	0.209		
L1.GSP_Download_Speed_Mbps		0.073167	0.056686
1.291	0.197		
L2.All Providers Combined_Download_Speed_Mbps		-0.418821	0.238431
-1.757	0.079		
L2.Baktelekom_Download_Speed_Mbps		0.075922	0.067263
1.129	0.259		
L2.Citynet_Download_Speed_Mbps		0.177572	0.131675
1.349	0.177		
L2.Aztelekom_Download_Speed_Mbps		0.084162	0.066880
1.258	0.208		
L2.KATV_1_Download_Speed_Mbps		0.253165	0.130074
1.946	0.052		
L2.Azeronline_Download_Speed_Mbps		0.017530	0.038655
0.453	0.650		
L2.EngiNet_Download_Speed_Mbps		0.072565	0.081546
0.890	0.374		
L2.Delta Telecom_Download_Speed_Mbps		-0.294846	0.178441
-1.652	0.098		
L2.Caspian Telecom_Download_Speed_Mbps		-0.026249	0.070179
-0.374	0.708		
L2.Selnet_Download_Speed_Mbps		0.028065	0.062198
0.451	0.652		
L2.GSP_Download_Speed_Mbps		0.060854	0.070466

0.864	0.388		
L3.All Providers Combined_Download_Speed_Mbps	-0.160229	0.268059	
-0.598	0.550		
L3.Baktelekom_Download_Speed_Mbps	0.012761	0.066889	
0.191	0.849		
L3.Citynet_Download_Speed_Mbps	0.262866	0.137190	
1.916	0.055		
L3.Aztelekom_Download_Speed_Mbps	0.132639	0.079676	
1.665	0.096		
L3.KATV 1_Download_Speed_Mbps	0.052152	0.139259	
0.374	0.708		
L3.Azeronline_Download_Speed_Mbps	-0.011113	0.043951	
-0.253	0.800		
L3.EngiNet_Download_Speed_Mbps	0.037092	0.090549	
0.410	0.682		
L3.Delta Telecom_Download_Speed_Mbps	-0.066561	0.177447	
-0.375	0.708		
L3.Caspian Telecom_Download_Speed_Mbps	0.011624	0.074440	
0.156	0.876		
L3.Selnet_Download_Speed_Mbps	-0.062277	0.068022	
-0.916	0.360		
L3.GSP_Download_Speed_Mbps	-0.052223	0.070543	
-0.740	0.459		
L4.All Providers Combined_Download_Speed_Mbps	-0.270953	0.278283	
-0.974	0.330		
L4.Baktelekom_Download_Speed_Mbps	0.138605	0.067453	
2.055	0.040		
L4.Citynet_Download_Speed_Mbps	-0.018129	0.157483	
-0.115	0.908		
L4.Aztelekom_Download_Speed_Mbps	0.095786	0.081927	
1.169	0.242		
L4.KATV 1_Download_Speed_Mbps	-0.020746	0.125555	
-0.165	0.869		
L4.Azeronline_Download_Speed_Mbps	-0.007208	0.044359	
-0.162	0.871		
L4.EngiNet_Download_Speed_Mbps	-0.061745	0.098614	
-0.626	0.531		
L4.Delta Telecom_Download_Speed_Mbps	-0.111588	0.193094	
-0.578	0.563		
L4.Caspian Telecom_Download_Speed_Mbps	0.024492	0.075349	
0.325	0.745		
L4.Selnet_Download_Speed_Mbps	-0.084524	0.066321	
-1.274	0.202		
L4.GSP_Download_Speed_Mbps	0.051830	0.069134	
0.750	0.453		
L5.All Providers Combined_Download_Speed_Mbps	-0.125870	0.269122	
-0.468	0.640		
L5.Baktelekom_Download_Speed_Mbps	0.030311	0.064882	
0.467	0.640		
L5.Citynet_Download_Speed_Mbps	-0.215525	0.149182	
-1.445	0.149		
L5.Aztelekom_Download_Speed_Mbps	0.081284	0.078872	
1.031	0.303		
L5.KATV 1_Download_Speed_Mbps	0.134919	0.115709	
1.166	0.244		
L5.Azeronline_Download_Speed_Mbps	-0.087212	0.046352	

-1.882	0.060		
L5.EngiNet_Download_Speed_Mbps		0.053156	0.098480
0.540	0.589		
L5.Delta Telecom_Download_Speed_Mbps		-0.089378	0.176859
-0.505	0.613		
L5.Caspian Telecom_Download_Speed_Mbps		-0.023993	0.077378
-0.310	0.757		
L5.Selnet_Download_Speed_Mbps		0.021109	0.076238
0.277	0.782		
L5.GSP_Download_Speed_Mbps		0.005106	0.071432
0.071	0.943		
L6.All Providers Combined_Download_Speed_Mbps		-0.149361	0.242494
-0.616	0.538		
L6.Baktelekom_Download_Speed_Mbps		0.038259	0.063035
0.607	0.544		
L6.Citynet_Download_Speed_Mbps		-0.036206	0.144503
-0.251	0.802		
L6.Aztelekom_Download_Speed_Mbps		0.044032	0.070189
0.627	0.530		
L6.KATV 1_Download_Speed_Mbps		0.272976	0.110258
2.476	0.013		
L6.Azeronline_Download_Speed_Mbps		0.020585	0.044141
0.466	0.641		
L6.EngiNet_Download_Speed_Mbps		-0.058376	0.086779
-0.673	0.501		
L6.Delta Telecom_Download_Speed_Mbps		-0.133427	0.174714
-0.764	0.445		
L6.Caspian Telecom_Download_Speed_Mbps		0.046710	0.070737
0.660	0.509		
L6.Selnet_Download_Speed_Mbps		-0.031498	0.075863
-0.415	0.678		
L6.GSP_Download_Speed_Mbps		0.077217	0.067235
1.148	0.251		
L7.All Providers Combined_Download_Speed_Mbps		-0.202991	0.239142
-0.849	0.396		
L7.Baktelekom_Download_Speed_Mbps		0.012433	0.059302
0.210	0.834		
L7.Citynet_Download_Speed_Mbps		0.063143	0.123360
0.512	0.609		
L7.Aztelekom_Download_Speed_Mbps		0.059785	0.051936
1.151	0.250		
L7.KATV 1_Download_Speed_Mbps		0.185283	0.109362
1.694	0.090		
L7.Azeronline_Download_Speed_Mbps		-0.007279	0.042183
-0.173	0.863		
L7.EngiNet_Download_Speed_Mbps		-0.062184	0.063682
-0.976	0.329		
L7.Delta Telecom_Download_Speed_Mbps		-0.176968	0.137047
-1.291	0.197		
L7.Caspian Telecom_Download_Speed_Mbps		0.016261	0.052377
0.310	0.756		
L7.Selnet_Download_Speed_Mbps		0.082505	0.066072
1.249	0.212		
L7.GSP_Download_Speed_Mbps		-0.073017	0.073490
-0.994	0.320		

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Results for equation Caspian Telecom_Download_Speed_Mbps

t-stat	prob	coefficient	std. error
const		0.023329	0.506522
0.046	0.963		
L1.All Providers Combined_Download_Speed_Mbps		0.200405	0.539135
0.372	0.710		
L1.Baktelekom_Download_Speed_Mbps		-0.174939	0.132213
-1.323	0.186		
L1.Citynet_Download_Speed_Mbps		-0.432048	0.272392
-1.586	0.113		
L1.Aztelekom_Download_Speed_Mbps		0.085287	0.134551
0.634	0.526		
L1.KATV_1_Download_Speed_Mbps		-0.018830	0.256902
-0.073	0.942		
L1.Azeronline_Download_Speed_Mbps		0.010773	0.087702
0.123	0.902		
L1.EngiNet_Download_Speed_Mbps		-0.158982	0.203864
-0.780	0.435		
L1.Delta Telecom_Download_Speed_Mbps		0.127978	0.433043
0.296	0.768		
L1.Caspian Telecom_Download_Speed_Mbps		-0.974193	0.155842
-6.251	0.000		
L1.Selnet_Download_Speed_Mbps		-0.068862	0.171717
-0.401	0.688		
L1.GSP_Download_Speed_Mbps		0.139571	0.149145
0.936	0.349		
L2.All Providers Combined_Download_Speed_Mbps		0.517605	0.627334
0.825	0.409		
L2.Baktelekom_Download_Speed_Mbps		-0.456748	0.176974
-2.581	0.010		
L2.Citynet_Download_Speed_Mbps		0.257886	0.346449
0.744	0.457		
L2.Aztelekom_Download_Speed_Mbps		-0.019520	0.175968
-0.111	0.912		
L2.KATV_1_Download_Speed_Mbps		0.182371	0.342238
0.533	0.594		
L2.Azeronline_Download_Speed_Mbps		-0.008272	0.101705
-0.081	0.935		
L2.EngiNet_Download_Speed_Mbps		0.038175	0.214555
0.178	0.859		
L2.Delta Telecom_Download_Speed_Mbps		0.261007	0.469495
0.556	0.578		
L2.Caspian Telecom_Download_Speed_Mbps		-0.867459	0.184648
-4.698	0.000		
L2.Selnet_Download_Speed_Mbps		0.248481	0.163648
1.518	0.129		
L2.GSP_Download_Speed_Mbps		0.022928	0.185401
0.124	0.902		
L3.All Providers Combined_Download_Speed_Mbps		0.857248	0.705287

1.215	0.224		
L3.Baktelekom_Download_Speed_Mbps		-0.503415	0.175991
-2.860	0.004		
L3.Citynet_Download_Speed_Mbps		0.228779	0.360958
0.634	0.526		
L3.Aztelekom_Download_Speed_Mbps		-0.185809	0.209634
-0.886	0.375		
L3.KATV_1_Download_Speed_Mbps		0.043803	0.366403
0.120	0.905		
L3.Azeronline_Download_Speed_Mbps		-0.010715	0.115638
-0.093	0.926		
L3.EngiNet_Download_Speed_Mbps		0.031497	0.238243
0.132	0.895		
L3.Delta Telecom_Download_Speed_Mbps		-0.457057	0.466878
-0.979	0.328		
L3.Caspian Telecom_Download_Speed_Mbps		-0.503505	0.195859
-2.571	0.010		
L3.Selnet_Download_Speed_Mbps		0.066975	0.178973
0.374	0.708		
L3.GSP_Download_Speed_Mbps		-0.219238	0.185606
-1.181	0.238		
L4.All Providers Combined_Download_Speed_Mbps		0.675334	0.732188
0.922	0.356		
L4.Baktelekom_Download_Speed_Mbps		-0.129707	0.177474
-0.731	0.465		
L4.Citynet_Download_Speed_Mbps		0.577941	0.414351
1.395	0.163		
L4.Aztelekom_Download_Speed_Mbps		-0.100852	0.215556
-0.468	0.640		
L4.KATV_1_Download_Speed_Mbps		-0.381340	0.330347
-1.154	0.248		
L4.Azeronline_Download_Speed_Mbps		-0.090765	0.116714
-0.778	0.437		
L4.EngiNet_Download_Speed_Mbps		0.221653	0.259463
0.854	0.393		
L4.Delta Telecom_Download_Speed_Mbps		-0.591454	0.508048
-1.164	0.244		
L4.Caspian Telecom_Download_Speed_Mbps		-0.341965	0.198250
-1.725	0.085		
L4.Selnet_Download_Speed_Mbps		0.130658	0.174496
0.749	0.454		
L4.GSP_Download_Speed_Mbps		-0.133391	0.181899
-0.733	0.463		
L5.All Providers Combined_Download_Speed_Mbps		1.395805	0.708085
1.971	0.049		
L5.Baktelekom_Download_Speed_Mbps		-0.144782	0.170709
-0.848	0.396		
L5.Citynet_Download_Speed_Mbps		-0.591120	0.392513
-1.506	0.132		
L5.Aztelekom_Download_Speed_Mbps		-0.338987	0.207519
-1.634	0.102		
L5.KATV_1_Download_Speed_Mbps		-0.528004	0.304442
-1.734	0.083		
L5.Azeronline_Download_Speed_Mbps		0.051537	0.121957
0.423	0.673		
L5.EngiNet_Download_Speed_Mbps		0.190000	0.259109

0.733	0.463		
L5.Delta Telecom_Download_Speed_Mbps		-1.102576	0.465333
-2.369	0.018		
L5.Caspian Telecom_Download_Speed_Mbps		-0.579952	0.203588
-2.849	0.004		
L5.Selnet_Download_Speed_Mbps		0.139031	0.200590
0.693	0.488		
L5.GSP_Download_Speed_Mbps		0.243533	0.187944
1.296	0.195		
L6.All Providers Combined_Download_Speed_Mbps		1.867232	0.638024
2.927	0.003		
L6.Baktelekom_Download_Speed_Mbps		-0.289369	0.165850
-1.745	0.081		
L6.Citynet_Download_Speed_Mbps		-0.254554	0.380200
-0.670	0.503		
L6.Aztelekom_Download_Speed_Mbps		-0.326885	0.184674
-1.770	0.077		
L6.KATV_1_Download_Speed_Mbps		-0.629570	0.290100
-2.170	0.030		
L6.Azeronline_Download_Speed_Mbps		-0.099505	0.116139
-0.857	0.392		
L6.EngiNet_Download_Speed_Mbps		0.211319	0.228324
0.926	0.355		
L6.Delta Telecom_Download_Speed_Mbps		-0.850170	0.459687
-1.849	0.064		
L6.Caspian Telecom_Download_Speed_Mbps		-0.383137	0.186115
-2.059	0.040		
L6.Selnet_Download_Speed_Mbps		-0.159734	0.199603
-0.800	0.424		
L6.GSP_Download_Speed_Mbps		0.028426	0.176900
0.161	0.872		
L7.All Providers Combined_Download_Speed_Mbps		0.967211	0.629204
1.537	0.124		
L7.Baktelekom_Download_Speed_Mbps		0.007562	0.156030
0.048	0.961		
L7.Citynet_Download_Speed_Mbps		-0.212268	0.324572
-0.654	0.513		
L7.Aztelekom_Download_Speed_Mbps		-0.219764	0.136648
-1.608	0.108		
L7.KATV_1_Download_Speed_Mbps		-0.136283	0.287742
-0.474	0.636		
L7.Azeronline_Download_Speed_Mbps		0.035565	0.110986
0.320	0.749		
L7.EngiNet_Download_Speed_Mbps		0.110360	0.167554
0.659	0.510		
L7.Delta Telecom_Download_Speed_Mbps		-0.557110	0.360582
-1.545	0.122		
L7.Caspian Telecom_Download_Speed_Mbps		-0.285336	0.137809
-2.071	0.038		
L7.Selnet_Download_Speed_Mbps		0.062170	0.173842
0.358	0.721		
L7.GSP_Download_Speed_Mbps		-0.174326	0.193359
-0.902	0.367		

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Results for equation Selnet_Download_Speed_Mbps

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t-stat	prob	coefficient	std. error

const		0.585007	0.457008
1.280	0.201		
L1.All Providers Combined_Download_Speed_Mbps		0.437960	0.486434
0.900	0.368		
L1.Baktelekom_Download_Speed_Mbps		-0.085445	0.119289
-0.716	0.474		
L1.Citynet_Download_Speed_Mbps		-0.017945	0.245765
-0.073	0.942		
L1.Aztelekom_Download_Speed_Mbps		-0.066985	0.121399
-0.552	0.581		
L1.KATV_1_Download_Speed_Mbps		0.104422	0.231789
0.451	0.652		
L1.Azeronline_Download_Speed_Mbps		-0.026920	0.079129
-0.340	0.734		
L1.EngiNet_Download_Speed_Mbps		0.104068	0.183936
0.566	0.572		
L1.Delta Telecom_Download_Speed_Mbps		0.284675	0.390713
0.729	0.466		
L1.Caspian Telecom_Download_Speed_Mbps		-0.198360	0.140608
-1.411	0.158		
L1.Selnet_Download_Speed_Mbps		-0.378255	0.154931
-2.441	0.015		
L1.GSP_Download_Speed_Mbps		-0.437244	0.134566
-3.249	0.001		
L2.All Providers Combined_Download_Speed_Mbps		0.636656	0.566011
1.125	0.261		
L2.Baktelekom_Download_Speed_Mbps		-0.201596	0.159674
-1.263	0.207		
L2.Citynet_Download_Speed_Mbps		-0.444020	0.312583
-1.420	0.155		
L2.Aztelekom_Download_Speed_Mbps		-0.089766	0.158767
-0.565	0.572		
L2.KATV_1_Download_Speed_Mbps		-0.072621	0.308783
-0.235	0.814		
L2.Azeronline_Download_Speed_Mbps		-0.107177	0.091764
-1.168	0.243		
L2.EngiNet_Download_Speed_Mbps		-0.042449	0.193582
-0.219	0.826		
L2.Delta Telecom_Download_Speed_Mbps		0.096078	0.423601
0.227	0.821		
L2.Caspian Telecom_Download_Speed_Mbps		-0.352511	0.166599
-2.116	0.034		
L2.Selnet_Download_Speed_Mbps		-0.285343	0.147651
-1.933	0.053		
L2.GSP_Download_Speed_Mbps		-0.238236	0.167278
-1.424	0.154		
L3.All Providers Combined_Download_Speed_Mbps		0.342987	0.636344
0.539	0.590		
L3.Baktelekom_Download_Speed_Mbps		-0.096132	0.158787

-0.605	0.545		
L3.Citynet_Download_Speed_Mbps		-0.519934	0.325674
-1.596	0.110		
L3.Aztelekom_Download_Speed_Mbps		-0.128201	0.189141
-0.678	0.498		
L3.KATV_1_Download_Speed_Mbps		0.077593	0.330587
0.235	0.814		
L3.Azeronline_Download_Speed_Mbps		-0.030943	0.104335
-0.297	0.767		
L3.EngiNet_Download_Speed_Mbps		-0.070823	0.214954
-0.329	0.742		
L3.Delta Telecom_Download_Speed_Mbps		-0.494064	0.421240
-1.173	0.241		
L3.Caspian Telecom_Download_Speed_Mbps		-0.250839	0.176713
-1.419	0.156		
L3.Selnet_Download_Speed_Mbps		-0.086363	0.161478
-0.535	0.593		
L3.GSP_Download_Speed_Mbps		-0.133219	0.167463
-0.796	0.426		
L4.All Providers Combined_Download_Speed_Mbps		-0.566282	0.660615
-0.857	0.391		
L4.Baktelekom_Download_Speed_Mbps		0.002907	0.160126
0.018	0.986		
L4.Citynet_Download_Speed_Mbps		0.161308	0.373848
0.431	0.666		
L4.Aztelekom_Download_Speed_Mbps		-0.063627	0.194485
-0.327	0.744		
L4.KATV_1_Download_Speed_Mbps		0.363315	0.298055
1.219	0.223		
L4.Azeronline_Download_Speed_Mbps		-0.020948	0.105305
-0.199	0.842		
L4.EngiNet_Download_Speed_Mbps		0.076517	0.234100
0.327	0.744		
L4.Delta Telecom_Download_Speed_Mbps		-0.853342	0.458386
-1.862	0.063		
L4.Caspian Telecom_Download_Speed_Mbps		-0.003274	0.178871
-0.018	0.985		
L4.Selnet_Download_Speed_Mbps		-0.095776	0.157438
-0.608	0.543		
L4.GSP_Download_Speed_Mbps		-0.009729	0.164118
-0.059	0.953		
L5.All Providers Combined_Download_Speed_Mbps		0.095440	0.638869
0.149	0.881		
L5.Baktelekom_Download_Speed_Mbps		-0.178291	0.154022
-1.158	0.247		
L5.Citynet_Download_Speed_Mbps		0.560890	0.354144
1.584	0.113		
L5.Aztelekom_Download_Speed_Mbps		0.099859	0.187234
0.533	0.594		
L5.KATV_1_Download_Speed_Mbps		-0.122858	0.274682
-0.447	0.655		
L5.Azeronline_Download_Speed_Mbps		0.007601	0.110035
0.069	0.945		
L5.EngiNet_Download_Speed_Mbps		-0.147688	0.233781
-0.632	0.528		
L5.Delta Telecom_Download_Speed_Mbps		-0.375560	0.419846

-0.895	0.371		
L5.Caspian Telecom_Download_Speed_Mbps		-0.023759	0.183687
-0.129	0.897		
L5.Selnet_Download_Speed_Mbps		0.206200	0.180982
1.139	0.255		
L5.GSP_Download_Speed_Mbps		-0.049808	0.169572
-0.294	0.769		
L6.All Providers Combined_Download_Speed_Mbps		-0.060146	0.575656
-0.104	0.917		
L6.Baktelekom_Download_Speed_Mbps		0.218847	0.149638
1.463	0.144		
L6.Citynet_Download_Speed_Mbps		0.418559	0.343035
1.220	0.222		
L6.Aztelekom_Download_Speed_Mbps		-0.124535	0.166622
-0.747	0.455		
L6.KATV 1_Download_Speed_Mbps		-0.487227	0.261742
-1.861	0.063		
L6.Azeronline_Download_Speed_Mbps		-0.064617	0.104787
-0.617	0.537		
L6.EngiNet_Download_Speed_Mbps		-0.192022	0.206005
-0.932	0.351		
L6.Delta Telecom_Download_Speed_Mbps		-0.385458	0.414752
-0.929	0.353		
L6.Caspian Telecom_Download_Speed_Mbps		-0.043813	0.167922
-0.261	0.794		
L6.Selnet_Download_Speed_Mbps		-0.053232	0.180091
-0.296	0.768		
L6.GSP_Download_Speed_Mbps		0.209482	0.159608
1.312	0.189		
L7.All Providers Combined_Download_Speed_Mbps		0.115144	0.567699
0.203	0.839		
L7.Baktelekom_Download_Speed_Mbps		0.069374	0.140777
0.493	0.622		
L7.Citynet_Download_Speed_Mbps		-0.140842	0.292845
-0.481	0.631		
L7.Aztelekom_Download_Speed_Mbps		0.014162	0.123291
0.115	0.909		
L7.KATV 1_Download_Speed_Mbps		-0.258005	0.259615
-0.994	0.320		
L7.Azeronline_Download_Speed_Mbps		-0.080361	0.100137
-0.803	0.422		
L7.EngiNet_Download_Speed_Mbps		0.135540	0.151175
0.897	0.370		
L7.Delta Telecom_Download_Speed_Mbps		-0.486488	0.325335
-1.495	0.135		
L7.Caspian Telecom_Download_Speed_Mbps		-0.128288	0.124338
-1.032	0.302		
L7.Selnet_Download_Speed_Mbps		-0.010628	0.156849
-0.068	0.946		
L7.GSP_Download_Speed_Mbps		0.045839	0.174458
0.263	0.793		

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Results for equation GSP_Download_Speed_Mbps

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t-stat	prob	coefficient	std. error

const		0.239192	0.474787
0.504	0.614		
L1.All Providers Combined_Download_Speed_Mbps		-0.503154	0.505357
-0.996	0.319		
L1.Baktelekom_Download_Speed_Mbps		-0.002713	0.123929
-0.022	0.983		
L1.Citynet_Download_Speed_Mbps		0.464879	0.255326
1.821	0.069		
L1.Aztelekom_Download_Speed_Mbps		0.145539	0.126121
1.154	0.249		
L1.KATV_1_Download_Speed_Mbps		0.018585	0.240806
0.077	0.938		
L1.Azeronline_Download_Speed_Mbps		0.024997	0.082207
0.304	0.761		
L1.EngiNet_Download_Speed_Mbps		0.210084	0.191091
1.099	0.272		
L1.Delta Telecom_Download_Speed_Mbps		0.652150	0.405912
1.607	0.108		
L1.Caspian Telecom_Download_Speed_Mbps		-0.064585	0.146078
-0.442	0.658		
L1.Selnet_Download_Speed_Mbps		-0.180706	0.160959
-1.123	0.262		
L1.GSP_Download_Speed_Mbps		-0.560711	0.139801
-4.011	0.000		
L2.All Providers Combined_Download_Speed_Mbps		0.467633	0.588030
0.795	0.426		
L2.Baktelekom_Download_Speed_Mbps		-0.259527	0.165886
-1.564	0.118		
L2.Citynet_Download_Speed_Mbps		-0.024904	0.324743
-0.077	0.939		
L2.Aztelekom_Download_Speed_Mbps		0.022536	0.164943
0.137	0.891		
L2.KATV_1_Download_Speed_Mbps		-0.285452	0.320796
-0.890	0.374		
L2.Azeronline_Download_Speed_Mbps		0.049116	0.095333
0.515	0.606		
L2.EngiNet_Download_Speed_Mbps		-0.153069	0.201112
-0.761	0.447		
L2.Delta Telecom_Download_Speed_Mbps		0.354011	0.440080
0.804	0.421		
L2.Caspian Telecom_Download_Speed_Mbps		-0.020715	0.173080
-0.120	0.905		
L2.Selnet_Download_Speed_Mbps		-0.253127	0.153395
-1.650	0.099		
L2.GSP_Download_Speed_Mbps		-0.502796	0.173785
-2.893	0.004		
L3.All Providers Combined_Download_Speed_Mbps		0.278464	0.661099
0.421	0.674		
L3.Baktelekom_Download_Speed_Mbps		-0.227051	0.164964
-1.376	0.169		
L3.Citynet_Download_Speed_Mbps		0.269942	0.338343

0.798	0.425		
L3.Aztelekom_Download_Speed_Mbps		-0.143998	0.196499
-0.733	0.464		
L3.KATV_1_Download_Speed_Mbps		-0.262450	0.343447
-0.764	0.445		
L3.Azeronline_Download_Speed_Mbps		0.047590	0.108393
0.439	0.661		
L3.EngiNet_Download_Speed_Mbps		0.006660	0.223316
0.030	0.976		
L3.Delta_Telecom_Download_Speed_Mbps		-0.199696	0.437627
-0.456	0.648		
L3.Caspian_Telecom_Download_Speed_Mbps		0.230650	0.183588
1.256	0.209		
L3.Selnet_Download_Speed_Mbps		-0.058754	0.167760
-0.350	0.726		
L3.GSP_Download_Speed_Mbps		-0.411190	0.173977
-2.363	0.018		
L4.All_Providers_Combined_Download_Speed_Mbps		0.940008	0.686314
1.370	0.171		
L4.Baktelekom_Download_Speed_Mbps		-0.011698	0.166355
-0.070	0.944		
L4.Citynet_Download_Speed_Mbps		-0.109026	0.388391
-0.281	0.779		
L4.Aztelekom_Download_Speed_Mbps		-0.369176	0.202051
-1.827	0.068		
L4.KATV_1_Download_Speed_Mbps		-0.403220	0.309650
-1.302	0.193		
L4.Azeronline_Download_Speed_Mbps		0.151646	0.109401
1.386	0.166		
L4.EngiNet_Download_Speed_Mbps		-0.117414	0.243207
-0.483	0.629		
L4.Delta_Telecom_Download_Speed_Mbps		-0.468150	0.476218
-0.983	0.326		
L4.Caspian_Telecom_Download_Speed_Mbps		-0.044923	0.185829
-0.242	0.809		
L4.Selnet_Download_Speed_Mbps		-0.159134	0.163563
-0.973	0.331		
L4.GSP_Download_Speed_Mbps		-0.312955	0.170502
-1.835	0.066		
L5.All_Providers_Combined_Download_Speed_Mbps		-0.034566	0.663722
-0.052	0.958		
L5.Baktelekom_Download_Speed_Mbps		0.022949	0.160014
0.143	0.886		
L5.Citynet_Download_Speed_Mbps		0.523464	0.367921
1.423	0.155		
L5.Aztelekom_Download_Speed_Mbps		-0.055874	0.194517
-0.287	0.774		
L5.KATV_1_Download_Speed_Mbps		-0.166479	0.285368
-0.583	0.560		
L5.Azeronline_Download_Speed_Mbps		0.107828	0.114316
0.943	0.346		
L5.EngiNet_Download_Speed_Mbps		-0.026122	0.242875
-0.108	0.914		
L5.Delta_Telecom_Download_Speed_Mbps		0.418356	0.436179
0.959	0.337		
L5.Caspian_Telecom_Download_Speed_Mbps		-0.028464	0.190832

-0.149	0.881		
L5.Selnet_Download_Speed_Mbps	-0.205124	0.188022	
-1.091	0.275		
L5.GSP_Download_Speed_Mbps	-0.214819	0.176169	
-1.219	0.223		
L6.All Providers Combined_Download_Speed_Mbps	0.335707	0.598050	
0.561	0.575		
L6.Baktelekom_Download_Speed_Mbps	-0.052801	0.155459	
-0.340	0.734		
L6.Citynet_Download_Speed_Mbps	0.542897	0.356379	
1.523	0.128		
L6.Aztelekom_Download_Speed_Mbps	-0.125838	0.173103	
-0.727	0.467		
L6.KATV_1_Download_Speed_Mbps	-0.355154	0.271924	
-1.306	0.192		
L6.Azeronline_Download_Speed_Mbps	0.221337	0.108863	
2.033	0.042		
L6.EngiNet_Download_Speed_Mbps	0.045950	0.214019	
0.215	0.830		
L6.Delta Telecom_Download_Speed_Mbps	-0.047621	0.430887	
-0.111	0.912		
L6.Caspian Telecom_Download_Speed_Mbps	0.017062	0.174455	
0.098	0.922		
L6.Selnet_Download_Speed_Mbps	-0.482447	0.187097	
-2.579	0.010		
L6.GSP_Download_Speed_Mbps	-0.164292	0.165817	
-0.991	0.322		
L7.All Providers Combined_Download_Speed_Mbps	0.597718	0.589783	
1.013	0.311		
L7.Baktelekom_Download_Speed_Mbps	-0.167901	0.146254	
-1.148	0.251		
L7.Citynet_Download_Speed_Mbps	0.202275	0.304237	
0.665	0.506		
L7.Aztelekom_Download_Speed_Mbps	-0.032575	0.128087	
-0.254	0.799		
L7.KATV_1_Download_Speed_Mbps	-0.568006	0.269715	
-2.106	0.035		
L7.Azeronline_Download_Speed_Mbps	0.008123	0.104032	
0.078	0.938		
L7.EngiNet_Download_Speed_Mbps	-0.032621	0.157056	
-0.208	0.835		
L7.Delta Telecom_Download_Speed_Mbps	-0.154990	0.337991	
-0.459	0.647		
L7.Caspian Telecom_Download_Speed_Mbps	0.061715	0.129175	
0.478	0.633		
L7.Selnet_Download_Speed_Mbps	-0.355746	0.162950	
-2.183	0.029		
L7.GSP_Download_Speed_Mbps	-0.285714	0.181244	
-1.576	0.115		

Correlation matrix of residuals

	All Providers Combined_Download_Speed_Mbps	Baktelekom_Download_Speed_Mbps	Citynet_Download_Speed_Mbps	Aztelemek_Download_Speed Mbps	KATV 1 Download Speed Mbps	Azeronline Download Speed Mbps	EngiNet Downl
Download Speed (Mbps)	10.97	11.86	10.63	10.88	10.87	10.87	10.87
Upload Speed (Mbps)	3.26	3.62	3.19	3.39	3.39	3.39	3.39
Ping (ms)	20.34	19.55	20.65	20.34	20.34	20.34	20.34

oad_Speed_Mbps	Delta Telecom_Download_Speed_Mbps	Caspian Telecom_Download_Speed_Mbps	
s_Selnet_Download_Speed_Mbps	GSP_Download_Speed_Mbps		
All Providers_Combined_Download_Speed_Mbps			1.000
000	0.664245	0.126773	
0.332124	0.287201	0.341538	
0.487285	0.147052		0.418343
0.143224	0.269133		
Baktelekom_Download_Speed_Mbps			0.664
245	1.000000	-0.015630	
0.355868	0.086486	0.200877	
0.230939	0.161638		0.219007
0.227068	-0.004523		
Citynet_Download_Speed_Mbps			0.126
773	-0.015630	1.000000	
0.025362	-0.141333	-0.149087	
-0.018388	-0.431635		-0.123759
-0.183821	0.068819		
Aztelekom_Download_Speed_Mbps			0.332
124	0.355868	0.025362	
1.000000	-0.026139	-0.138779	
0.101648	-0.001750		0.094592
0.032113	0.156080		
KATV_1_Download_Speed_Mbps			0.287
201	0.086486	-0.141333	
-0.026139	1.000000	0.113481	
0.049258	0.381577		0.084861
0.068112	-0.002345		
Azeronline_Download_Speed_Mbps			0.341
538	0.200877	-0.149087	
-0.138779	0.113481	1.000000	
0.248372	0.402642		0.133212
0.139878	-0.104294		
EngiNet_Download_Speed_Mbps			0.487
285	0.230939	-0.018388	
0.101648	0.049258	0.248372	
1.000000	0.132644		0.172106
0.192968	0.206200		
Delta Telecom_Download_Speed_Mbps			0.147
052	0.161638	-0.431635	
-0.001750	0.381577	0.402642	
0.132644	1.000000		0.291631
0.207361	-0.134610		
Caspian Telecom_Download_Speed_Mbps			0.418
343	0.219007	-0.123759	
0.094592	0.084861	0.133212	
0.172106	0.291631		1.000000
-0.141777	0.046921		
Selnet_Download_Speed_Mbps			0.143
224	0.227068	-0.183821	
0.032113	0.068112	0.139878	
0.192968	0.207361		-0.141777
1.000000	0.118807		
GSP_Download_Speed_Mbps			0.269
133	-0.004523	0.068819	
0.156080	-0.002345	-0.104294	
0.206200	-0.134610		0.046921

0.118807

1.000000

Normality Tests (Jarque-Bera):

Test statistic: 18.5443

p-value: 0.6733

Normality hypothesis not rejected at 0.05 significance level

Serial Correlation Test (Ljung-Box):

Equation 1 (All Providers Combined_Download_Speed_Mbps):

Test statistic: 5.1820

p-value: 0.8787

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 2 (Baktelekom_Download_Speed_Mbps):

Test statistic: 5.9932

p-value: 0.8158

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 3 (Citynet_Download_Speed_Mbps):

Test statistic: 10.1482

p-value: 0.4276

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 4 (Aztelekom_Download_Speed_Mbps):

Test statistic: 4.4963

p-value: 0.9222

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 5 (KATV 1_Download_Speed_Mbps):

Test statistic: 12.0902

p-value: 0.2791

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 6 (Azeronline_Download_Speed_Mbps):

Test statistic: 7.2852

p-value: 0.6983

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 7 (EngiNet_Download_Speed_Mbps):

Test statistic: 6.0441

p-value: 0.8115

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 8 (Delta Telecom_Download_Speed_Mbps):

Test statistic: 8.6433

p-value: 0.5663

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 9 (Caspian Telecom_Download_Speed_Mbps):

Test statistic: 8.3278

p-value: 0.5969

No serial correlation hypothesis not rejected at 0.05 significance level

Equation 10 (Selnet_Download_Speed_Mbps):

Test statistic: 3.5554

p-value: 0.9652

No serial correlation hypothesis not rejected at 0.05 significance level

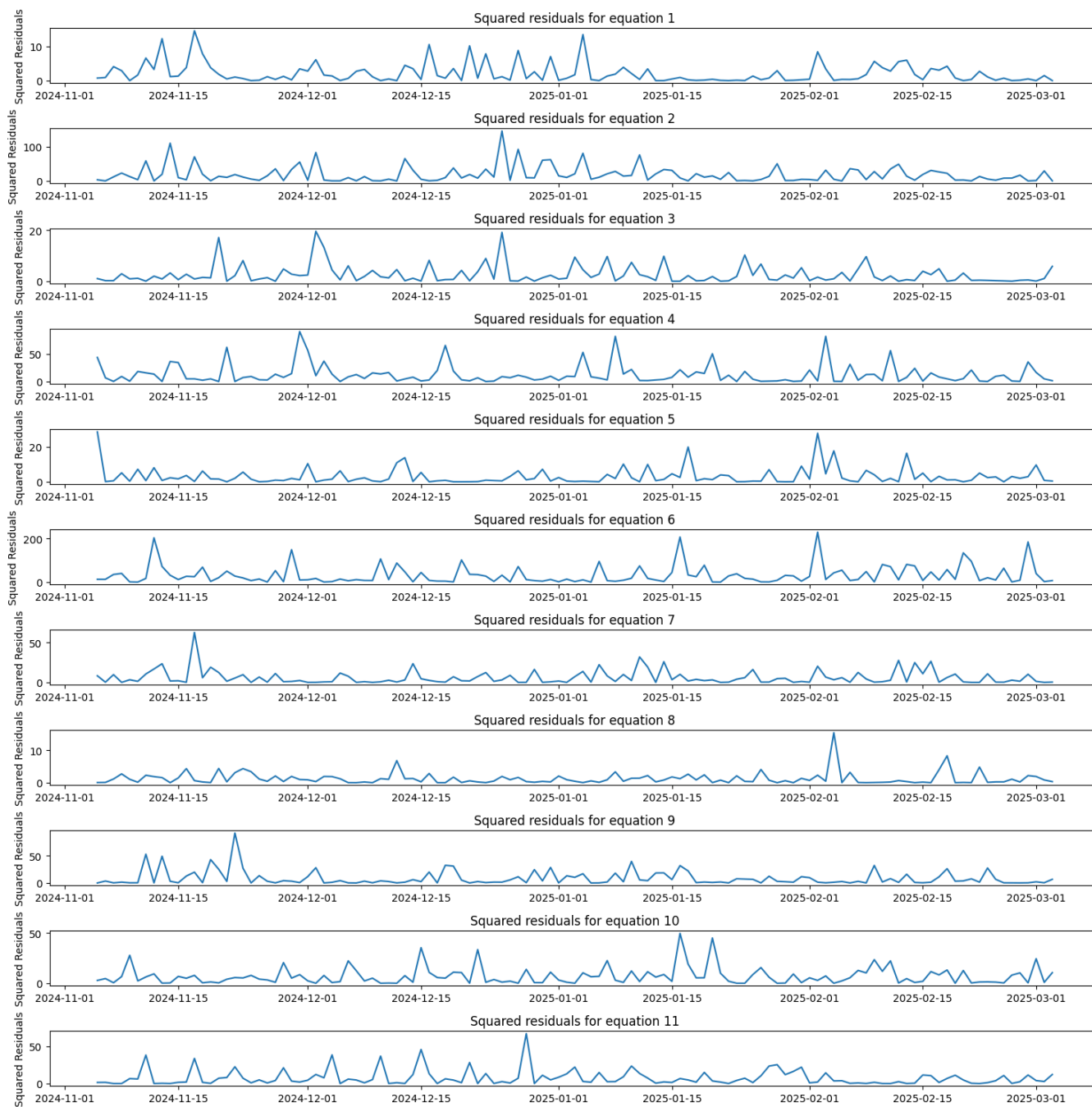
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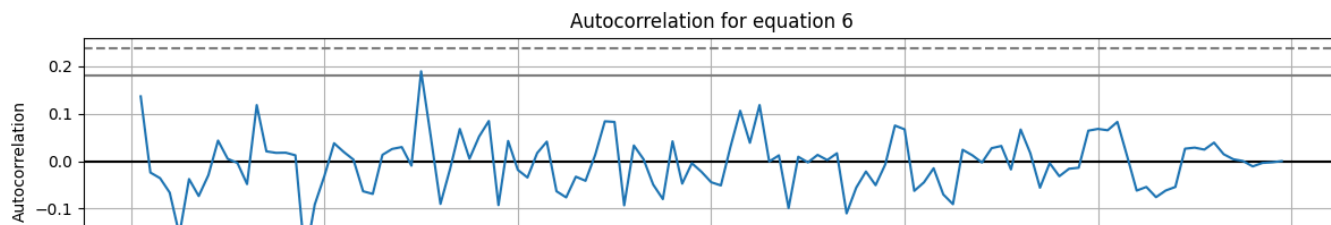
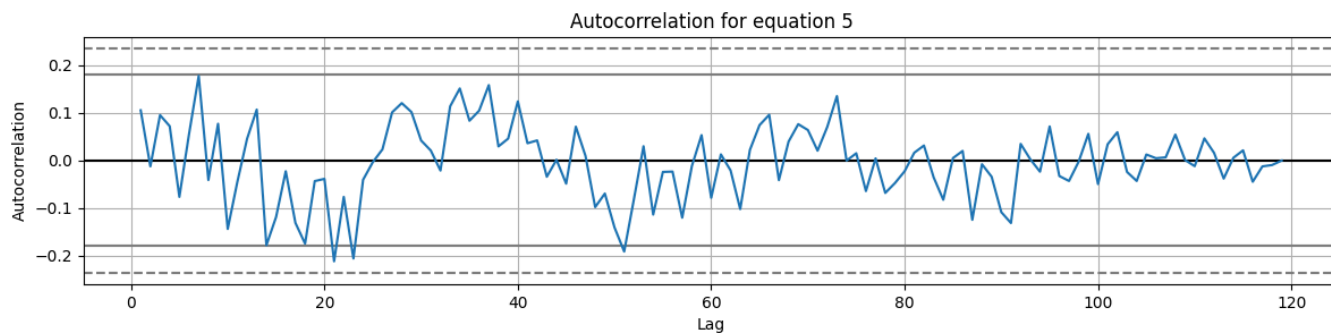
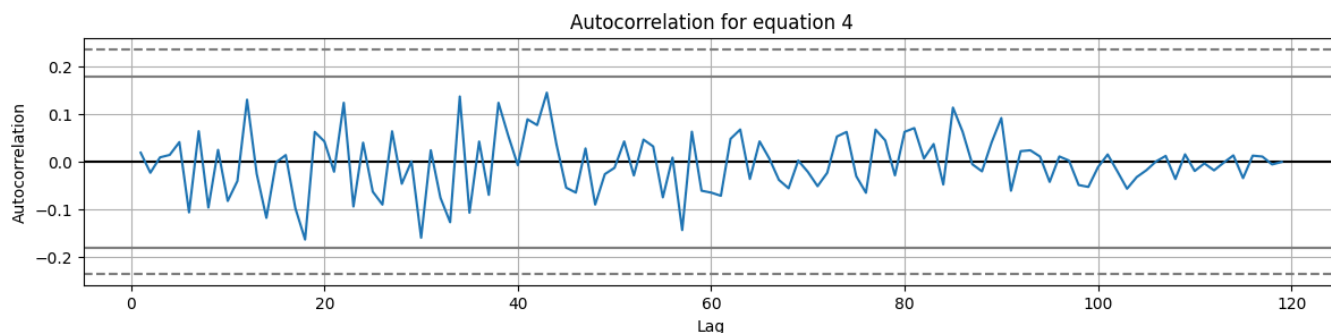
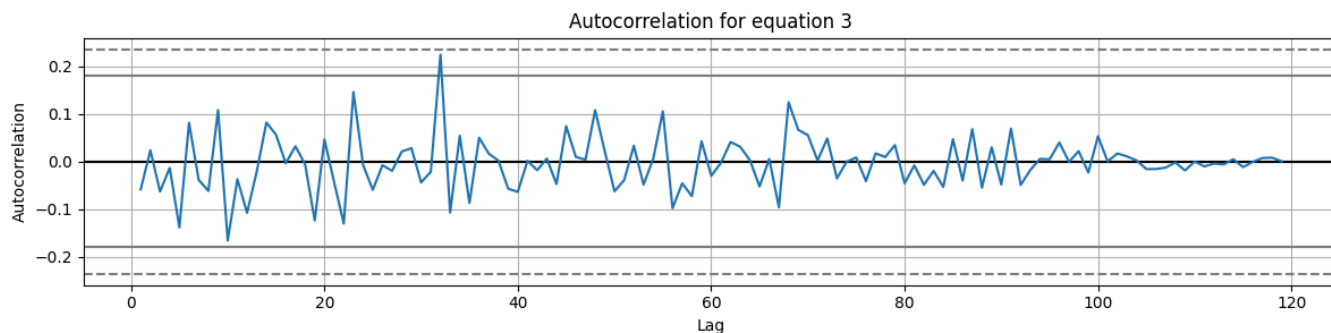
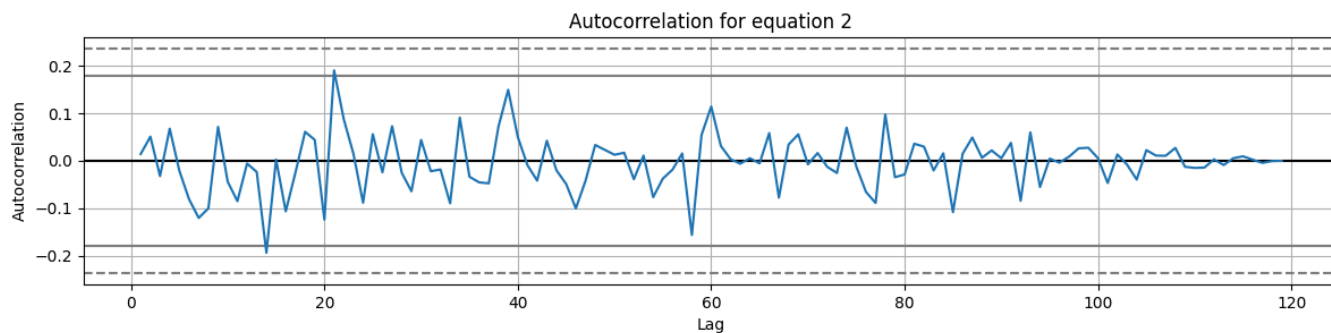
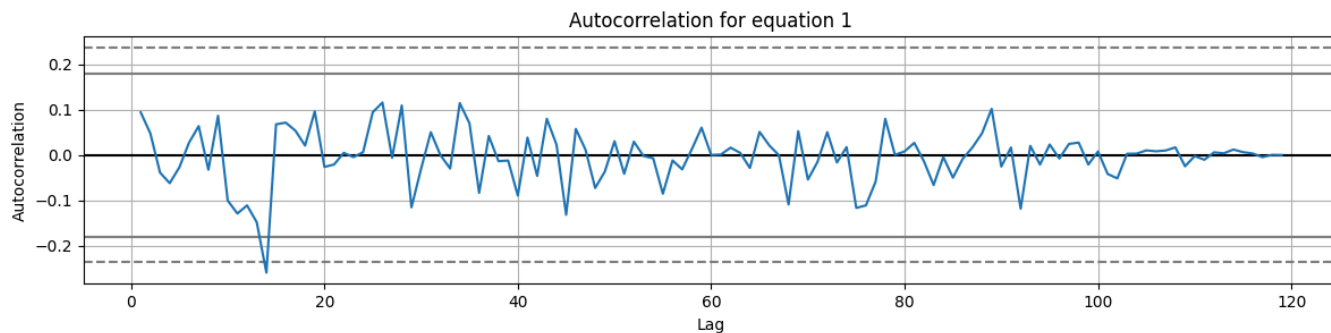
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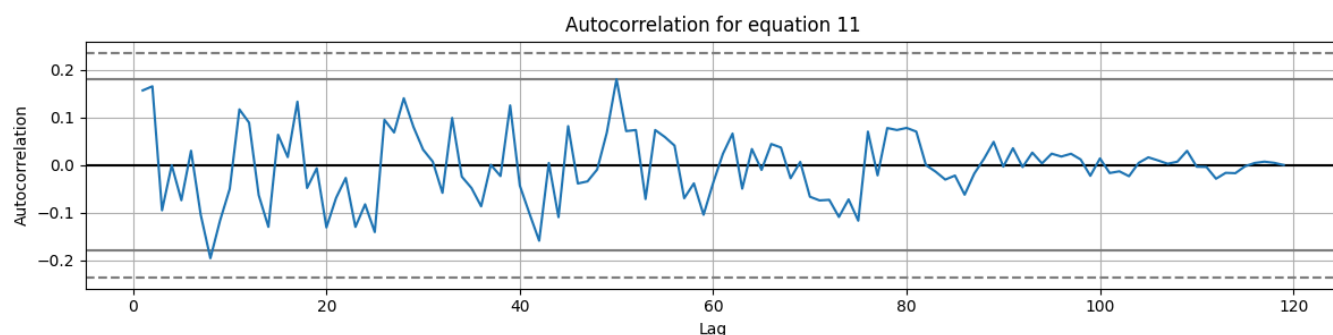
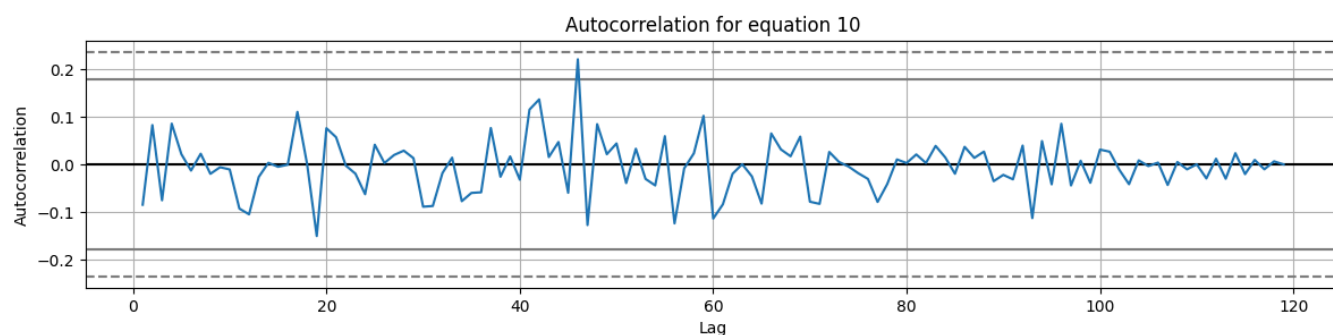
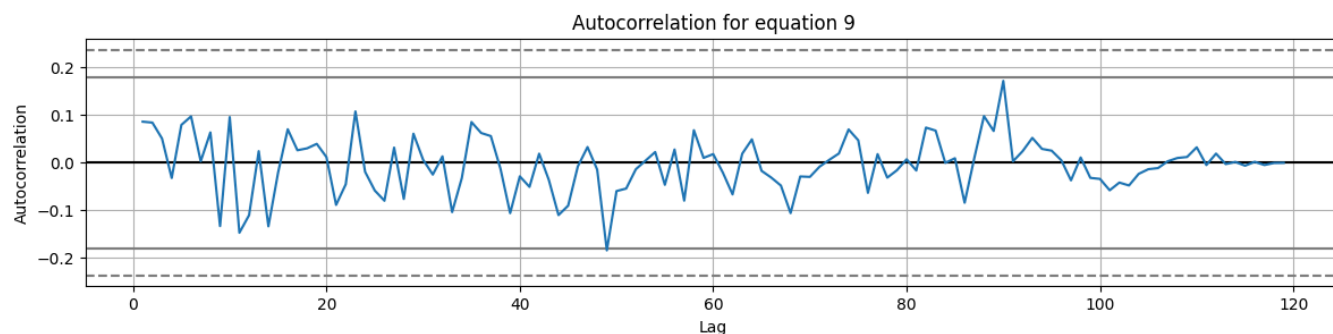
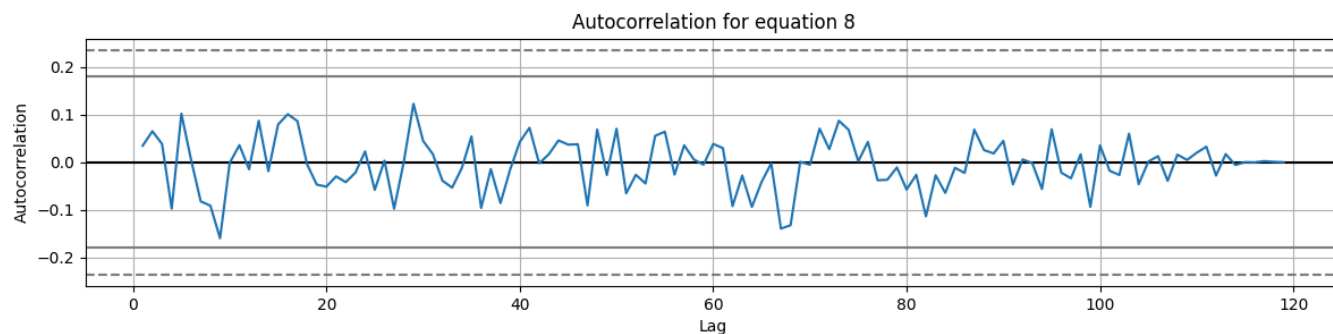
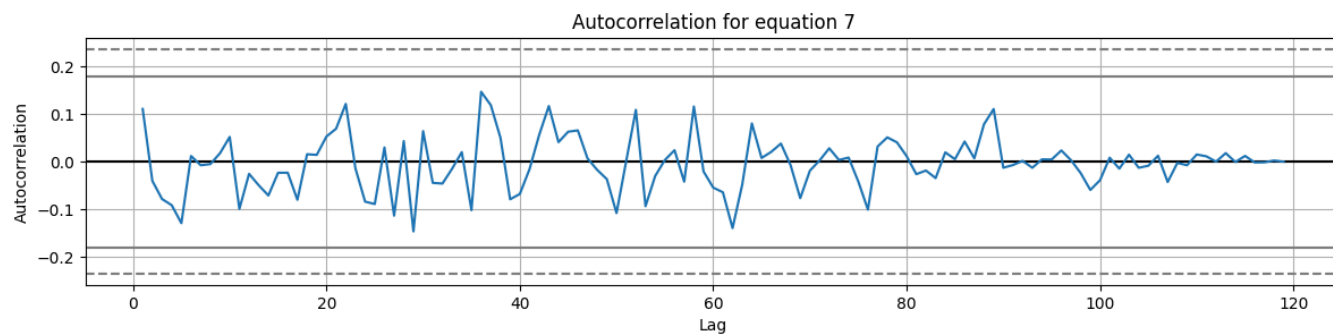
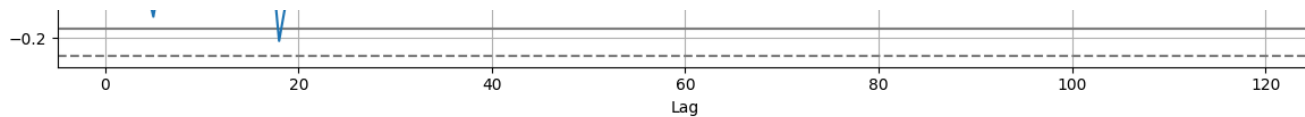
No serial correlation hypothesis not rejected at 0.05 significance level

Heteroskedasticity Check:



Autocorrelation Plots:





Variance Decomposition

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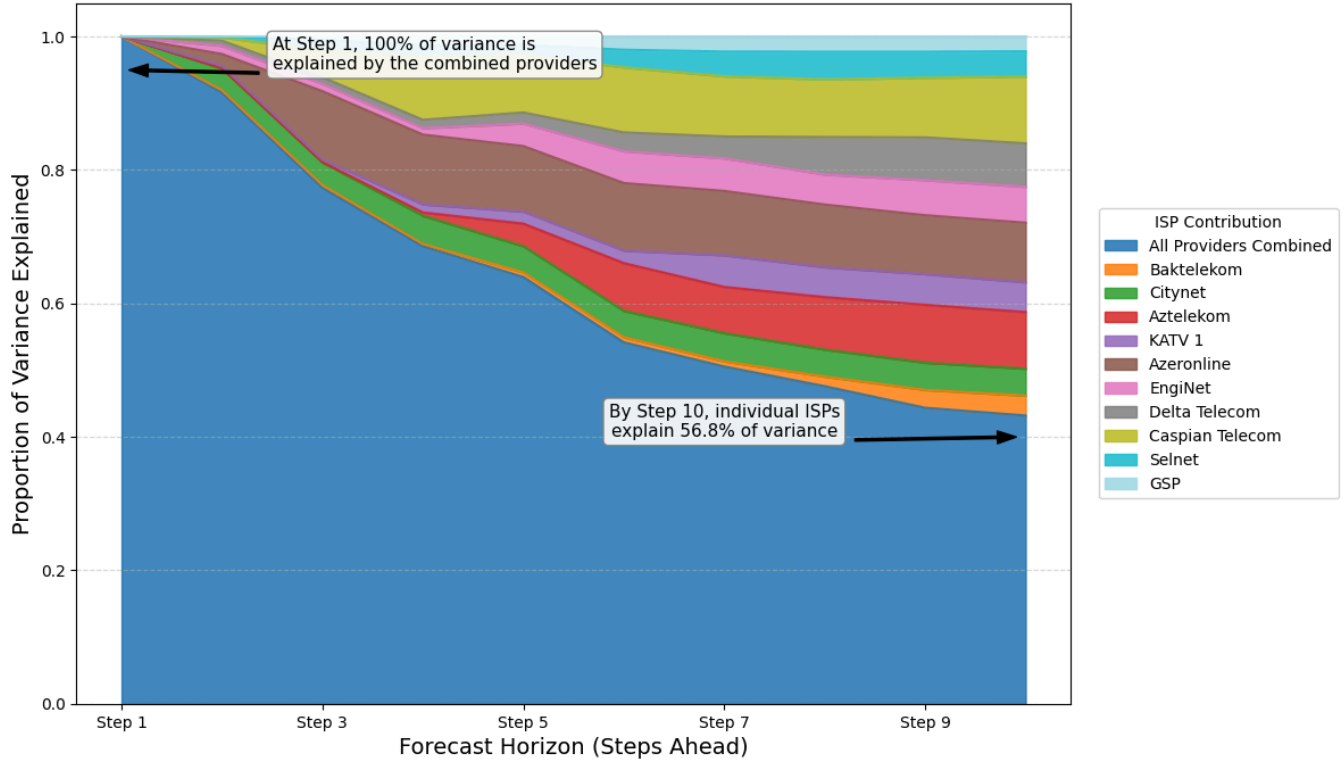
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```

Variance Decomposition of All Providers Combined_Download_Speed_Mbps



Top ISP contributors to forecast variance at Step 10:

All Providers Combined: 43.19%

Caspian Telecom: 10.01%

Azeronline: 8.92%

Aztelekom: 8.50%

Delta Telecom: 6.51%

EngiNet: 5.40%

KATV 1: 4.46%

Citynet: 4.03%

Selnet: 3.78%

Variance Decomposition Table:

	All Providers Combined_Download_Speed_Mbps \	
Step 1	1.000000	
Step 2	0.916082	
Step 3	0.773282	
Step 4	0.685614	
Step 5	0.639474	
Step 6	0.541576	
Step 7	0.505268	
Step 8	0.475798	
Step 9	0.443472	
Step 10	0.431854	

	Baktelekom_Download_Speed_Mbps	Citynet_Download_Speed_Mbps \
Step 1	0.000000	0.000000
Step 2	0.003260	0.032579
Step 3	0.003797	0.033929
Step 4	0.003365	0.042270
Step 5	0.006893	0.039214
Step 6	0.007636	0.039539
Step 7	0.007867	0.042239
Step 8	0.014485	0.040454
Step 9	0.026825	0.040790
Step 10	0.029884	0.040345

	Aztelekom_Download_Speed_Mbps	KATV 1_Download_Speed_Mbps \
Step 1	0.000000	0.000000
Step 2	0.000342	0.003412
Step 3	0.000725	0.003595
Step 4	0.005046	0.012152
Step 5	0.033958	0.018036
Step 6	0.071658	0.018656
Step 7	0.069299	0.047513
Step 8	0.078695	0.044791
Step 9	0.086831	0.046005
Step 10	0.084962	0.044641

	Azeronline_Download_Speed_Mbps	EngiNet_Download_Speed_Mbps \
Step 1	0.000000	0.000000
Step 2	0.018040	0.012345
Step 3	0.102705	0.010934
Step 4	0.104495	0.009708
Step 5	0.098167	0.033811
Step 6	0.101240	0.047698
Step 7	0.096316	0.048977

Step 8	0.093867	0.045069
Step 9	0.088187	0.052611
Step 10	0.089189	0.053969

Delta Telecom_Download_Speed_Mbps \

Step 1	0.000000
Step 2	0.007742
Step 3	0.009947
Step 4	0.012489
Step 5	0.016607
Step 6	0.028244
Step 7	0.032674
Step 8	0.056202
Step 9	0.064086
Step 10	0.065077

Caspian Telecom_Download_Speed_Mbps Selnet_Download_Speed_Mbps \

Step 1	0.000000	0.000000
Step 2	0.004789	0.000950
Step 3	0.040180	0.016375
Step 4	0.095664	0.015517
Step 5	0.086988	0.014269
Step 6	0.097360	0.026555
Step 7	0.090137	0.037103
Step 8	0.086358	0.041429
Step 9	0.089350	0.038986
Step 10	0.100059	0.037842

GSP_Download_Speed_Mbps

Step 1	0.000000
Step 2	0.000458
Step 3	0.004531
Step 4	0.013680
Step 5	0.012583
Step 6	0.019838
Step 7	0.022607
Step 8	0.022851
Step 9	0.022856
Step 10	0.022178

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        -3.42771047, 13.36301388,  2.13503845, -0.59622765,
         1.82850198, -2.74204744,  0.58229569],
       [ -7.55769365, -12.11273071, -2.47405043, -6.69077837,
        -4.5702719 , -15.56041921, -19.53974142, -5.580116  ,
        18.89196388,  4.86116054, -10.74653146],
       [  5.08628428, 17.65894303, 10.07183771, -8.49890219,
         4.62848899,  1.74427579, 16.48906589,  4.00498357,
        -15.89097914,  6.2135514 ,  6.74283621],
       [ -3.02993374, -7.24664609, -6.3282014 ,  6.74144973,
        -0.71012315,  3.22554848,  7.54442288, -0.84214847,
        -5.07462716, -12.09833716, -5.65008052],
       [  4.64095785, -9.94361789,  3.45612891,  3.82368527,
         3.48827064,  2.33345327, -5.94233824,  6.11550071,
        15.6883035 ,  5.7552979 , 14.79775936],
       [ -0.32320679, 11.40113829,  1.24418515, -3.83070006,
        -2.27808234, -4.16643457, -4.16116642, -5.99979221,
        -5.09213806, -1.79497821, -7.85745458],
       [  0.54633893,  3.07553442, -4.71539957, -0.36840912,
        -2.26423867, 13.45312884, -5.40248403,  0.54539005,
         1.79537249,  1.87880075, -4.91578858]])
```

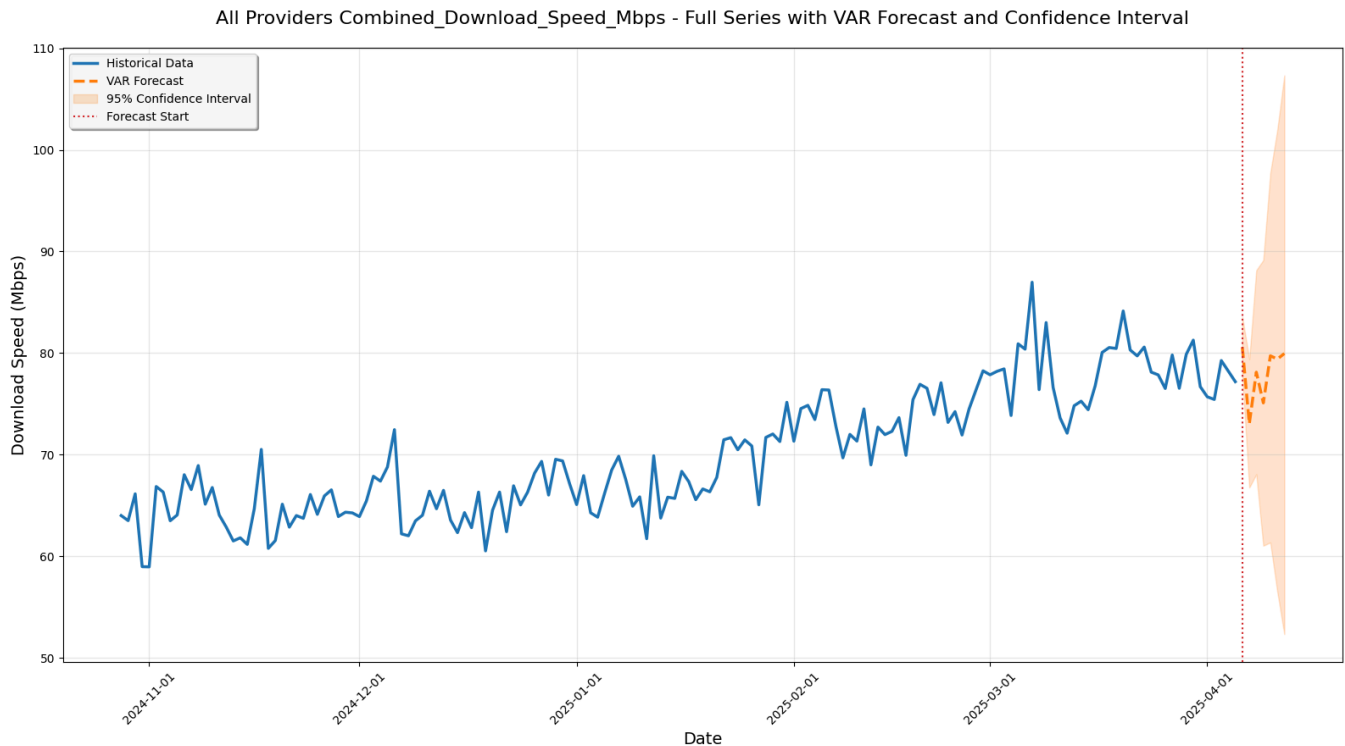
```
array([[ 3.40886998,  2.78476289, -4.39127877,  7.9726785 ,
        -3.42771047, 13.36301388,  2.13503845, -0.59622765,
         1.82850198, -2.74204744,  0.58229569],
       [ -7.55769365, -12.11273071, -2.47405043, -6.69077837,
        -4.5702719 , -15.56041921, -19.53974142, -5.580116  ,
        18.89196388,  4.86116054, -10.74653146],
       [  5.08628428, 17.65894303, 10.07183771, -8.49890219,
         4.62848899,  1.74427579, 16.48906589,  4.00498357,
        -15.89097914,  6.2135514 ,  6.74283621],
       [ -3.02993374, -7.24664609, -6.3282014 ,  6.74144973,
        -0.71012315,  3.22554848,  7.54442288, -0.84214847,
        -5.07462716, -12.09833716, -5.65008052],
       [  4.64095785, -9.94361789,  3.45612891,  3.82368527,
         3.48827064,  2.33345327, -5.94233824,  6.11550071,
        15.6883035 ,  5.7552979 , 14.79775936],
       [ -0.32320679, 11.40113829,  1.24418515, -3.83070006,
        -2.27808234, -4.16643457, -4.16116642, -5.99979221,
        -5.09213806, -1.79497821, -7.85745458],
       [  0.54633893,  3.07553442, -4.71539957, -0.36840912,
        -2.26423867, 13.45312884, -5.40248403,  0.54539005,
         1.79537249,  1.87880075, -4.91578858]])
```



```
array([[ 3.40886998,  2.78476289, -4.39127877,  7.9726785 ,
        -3.42771047, 13.36301388,  2.13503845, -0.59622765,
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        -4.5702719 , -15.56041921, -19.53974142, -5.580116  ,
        18.89196388,  4.86116054, -10.74653146],
       [ 5.08628428, 17.65894303, 10.07183771, -8.49890219,
         4.62848899,  1.74427579, 16.48906589,  4.00498357,
        -15.89097914,  6.2135514 ,  6.74283621],
       [-3.02993374, -7.24664609, -6.3282014 ,  6.74144973,
        -0.71012315,  3.22554848,  7.54442288, -0.84214847,
        -5.07462716, -12.09833716, -5.65008052],
       [ 4.64095785, -9.94361789,  3.45612891,  3.82368527,
         3.48827064,  2.33345327, -5.94233824,  6.11550071,
        15.6883035 ,  5.7552979 , 14.79775936],
       [-0.32320679, 11.40113829,  1.24418515, -3.83070006,
        -2.27808234, -4.16643457, -4.16116642, -5.99979221,
        -5.09213806, -1.79497821, -7.85745458],
       [ 0.54633893,  3.07553442, -4.71539957, -0.36840912,
        -2.26423867, 13.45312884, -5.40248403,  0.54539005,
         1.79537249,  1.87880075, -4.91578858]])
```

Bootstrap Confidence Interval

Plot Forecasts



Holdout Sample Evaluation

ADF Test Results (Before and After Differencing):

Series	ADF Statistic		p-value	
	Stage	After Differencing	Before Differencing	Before Differencing
All Providers				
Combined_Download_Speed_Mbps		-8.1084	-0.8082	0.8160
Azeronline_Download_Speed_Mbps		-6.8799	0.0010	0.9580
Aztelekom_Download_Speed_Mbps		-9.7074	-4.0032	0.0010
Baktelekom_Download_Speed_Mbps		-7.4582	-4.0178	0.0010
Caspian				
Telecom_Download_Speed_Mbps		-8.8285	-3.0763	0.0280
Citynet_Download_Speed_Mbps		-8.5323	-0.9305	0.7770
Delta				
Telecom_Download_Speed_Mbps		-7.8757	-1.8116	0.3740
EngiNet_Download_Speed_Mbps		-9.2143	-3.5229	0.0070
GSP_Download_Speed_Mbps		-10.8854	-11.1703	0.0000
KATV 1_Download_Speed_Mbps		-7.4798	-2.4240	0.1350
Selnet_Download_Speed_Mbps		-6.3241	-0.5673	0.8780

Training on 128 periods, holding out 30 periods for validation
Using maxlags=7 for holdout validation

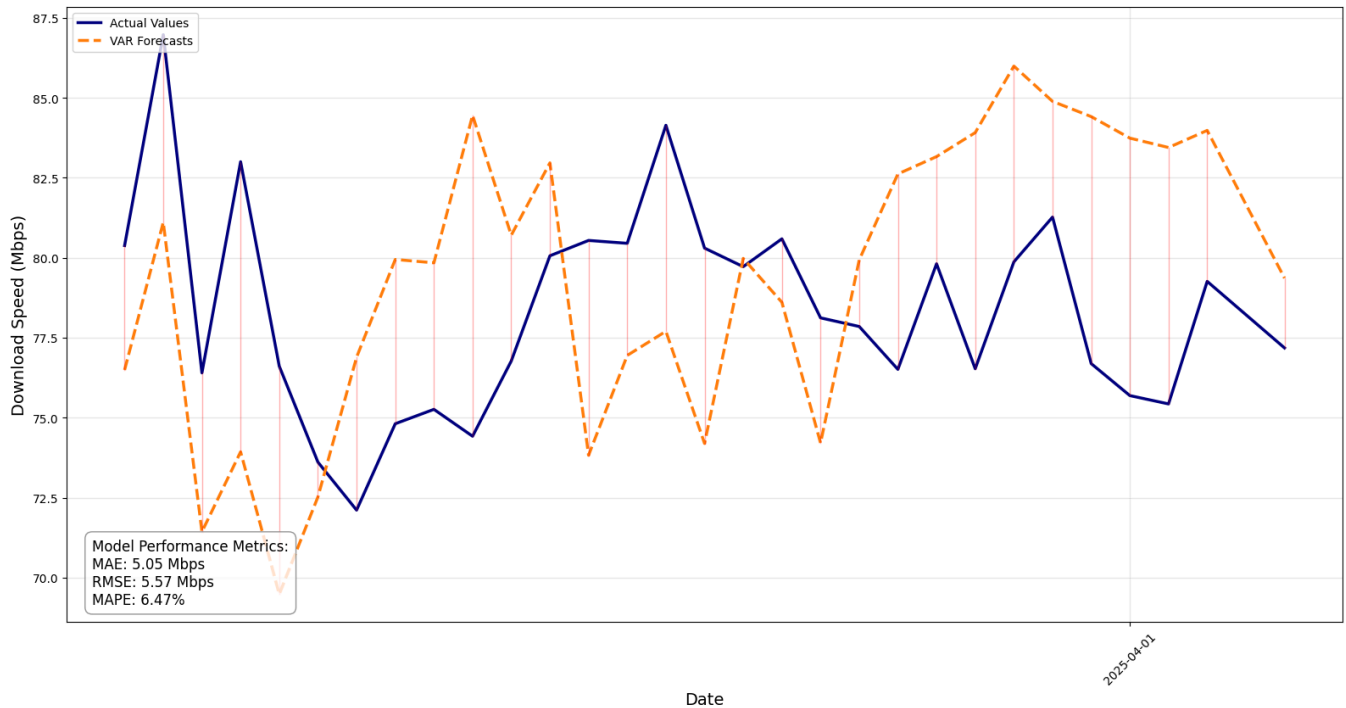
Holdout Validation Metrics:

Mean Absolute Error (MAE): 5.05 Mbps

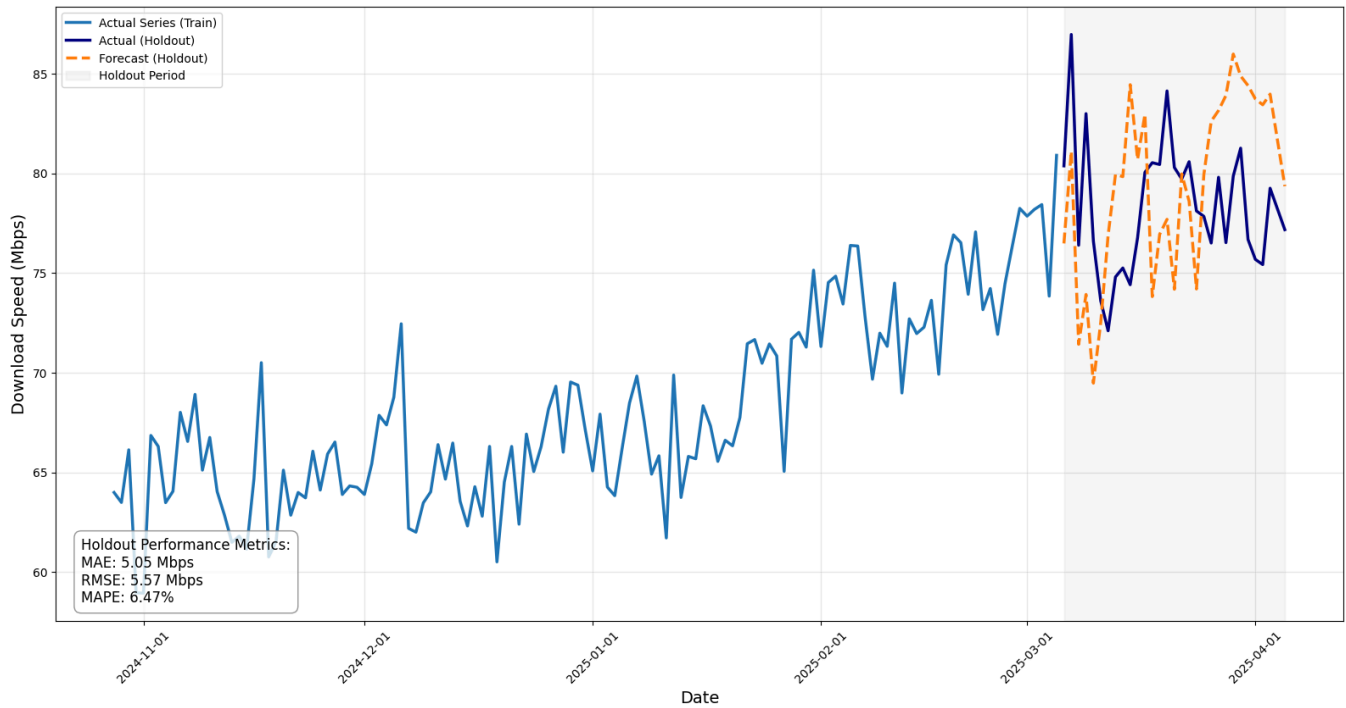
Root Mean Squared Error (RMSE): 5.57 Mbps

Mean Absolute Percentage Error (MAPE): 6.47%

Holdout Validation: All Providers Combined_Download_Speed_Mbps Forecast vs Actual



Full Series with Holdout Forecasts and Metrics



<Figure size 640x480 with 0 Axes>

<Figure size 640x480 with 0 Axes>

[NbConvertApp] Converting notebook var_model.ipynb to pdf

Error: Failed to convert notebook to PDF. Make sure jupyter-nbconvert is installed.

```

[NbConvertApp] ERROR | Error while converting 'var_model.ipynb'
Traceback (most recent call last):
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/nbconvertapp.py", line 487, in export_single_notebook
    output, resources = self.exporter.from_filename(
                        ~~~~~^
                        notebook_filename, resources=resources
                        ^
    )
    ^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/templateexporter.py", line 390, in from_filename
    return super().from_filename(filename, resources, **kw) # type:ignore[return-value]
           ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/exporter.py", line 201, in from_filename
    return self.from_file(f, resources=resources, **kw)
           ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/templateexporter.py", line 396, in from_file
    return super().from_file(file_stream, resources, **kw) # type:ignore[return-value]
           ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/exporter.py", line 220, in from_file
    return self.from_notebook_node(
           ~~~~~^
           nbformat.read(file_stream, as_version=4), resources=resources, **kw
           ^
    )
    ^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/pdf.py", line 184, in from_notebook_node
    latex, resources = super().from_notebook_node(nb, resources=resources, **kw)
                      ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/latex.py", line 92, in from_notebook_node
    return super().from_notebook_node(nb, resources, **kw)
           ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/exporters/templateexporter.py", line 429, in from_notebook_node
    output = self.template.render(nb=nb_copy, resources=resources)
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/jinja2/environment.py", line 1295, in render
    self.environment.handle_exception()
    ~~~~~^
  File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/jinja2/environment.py", line 942, in handle_exception
    raise rewrite_traceback_stack(source=source)
  File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/index.tex.j2", line 8, in top-level template code
    ((* extends cell_style *))
    ^
  File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/style_jupyter.tex.j2", line 176, in top-level template code

```

```

(prompt{{{(prompt)}}}{{{(prompt_color)}}}{{{(execution_count)}}}{{{(extra_spac
e)}}})
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/ba
se.tex.j2", line 7, in top-level template code
((*- extends 'document_contents.tex.j2' -*))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/do
cument_contents.tex.j2", line 51, in top-level template code
((*- block figure scoped -*))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/di
splay_priority.j2", line 5, in top-level template code
((*- extends 'null.j2' -*))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/nu
ll.j2", line 30, in top-level template code
((*- block body -*))
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/ba
se.tex.j2", line 241, in block 'body'
((( super() )))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/nu
ll.j2", line 32, in block 'body'
((*- block any_cell scoped -*))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/nu
ll.j2", line 85, in block 'any_cell'
((*- block markdowncell scoped-*)) ((*- endblock markdowncell -*))
~~~~~
File "/share/home/orujov/forecasting_env/share/jupyter/nbconvert/templates/latex/do
cument_contents.tex.j2", line 68, in block 'markdowncell'
((( cell.source | citation2latex | strip_files_prefix | convert_pandoc('markdown+
tex_math_double_backslash', 'json',extra_args=[]) | resolve_references | convert_exp
licitly_relative_paths | convert_pandoc('json','latex'))))
~~~~~
File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/fil
ters/pandoc.py", line 36, in convert_pandoc
    return pandoc(source, from_format, to_format, extra_args=extra_args)
File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/uti
ls/pandoc.py", line 50, in pandoc
    check_pandoc_version()
~~~~~
File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/uti
ls/pandoc.py", line 98, in check_pandoc_version
    v = get_pandoc_version()
File "/share/home/orujov/forecasting_env/lib/python3.13/site-packages/nbconvert/uti
ls/pandoc.py", line 75, in get_pandoc_version
    raise PandocMissing()
nbconvert.utils.pandoc.PandocMissing: Pandoc wasn't found.
Please check that pandoc is installed:
https://pandoc.org/installing.html

```

Requirement already satisfied: Pandoc in /share/home/orujov/forecasting_env/lib/python3.13/site-packages (2.4)
Requirement already satisfied: plumbum in /share/home/orujov/forecasting_env/lib/python3.13/site-packages (from Pandoc) (1.9.0)
Requirement already satisfied: ply in /share/home/orujov/forecasting_env/lib/python3.13/site-packages (from Pandoc) (3.11)

[notice] A new release of pip is available: 24.2 -> 25.0.1

[notice] To update, run: `pip install --upgrade pip`

Note: you may need to restart the kernel to use updated packages.