STATS ASSESSMENT SUMARIZED ANALYTICAL RESULTS.

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1 Experiment 2A

1.1 slice: test+lang, variables: size

Fold: bible-ka.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	X
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-23.0814	-0.0229
poly2	-22.8695	0.0468
poly3	-22.9897	0.0079
exp	-22.9710	0.0140
log	-22.8996	0.0372
power	-22.8776	0.0443
mult	-22.8776	0.0443
hybrid mult	-23.0247	-0.0038
scaling	-22.8703	0.0466

Fold: flores-hi.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	X	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-22.4973	0.2471
poly2	-22.2754	0.2933
poly3	-21.8090	0.3815
exp	-22.1999	0.3084
log	-22.4905	0.2485
power	-22.0347	0.3403
mult	-22.0347	0.3403
hybrid mult	-22.0677	0.3340
scaling	-22.0347	0.3403

Fold: gov-ka.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-24.3840	0.0259
poly2	-24.1639	0.0948
poly3	-24.2527	0.0677
exp	-24.3307	0.0431
log	-24.2129	0.0800
power	-24.2105	0.0807
mult	-24.2105	0.0807
hybrid mult	-24.3344	0.0419
scaling	-24.1910	0.0866

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	X
poly3	not F	X
exp	not F	not F
log	not F	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-20.3448	-0.1176
poly2	-19.7032	0.0976
poly3	-19.9010	0.0361
exp	-20.0457	-0.0116
log	-19.9775	0.0112
power	-19.7932	0.0701
mult	-19.7932	0.0701
hybrid mult	-20.0953	-0.0284
scaling	-19.7615	0.0799

Fold: gov-gu.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	X
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	X

models	LogLikelyhood	R2 coefficient
linear	-24.9647	-0.0132
poly2	-24.9919	-0.0225
poly3	-25.0314	-0.0360
exp	-24.9295	-0.0014
log	-24.8693	0.0185
power	-24.9180	0.0024
mult	-24.9180	0.0024
hybrid mult	-24.9346	-0.0031
scaling	-24.9257	-0.0002

Fold: gov-si.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-30.1994	0.2663
poly2	-30.2273	0.2604
poly3	-30.1380	0.2790
exp	-30.0956	0.2877
log	-30.5292	0.1938
power	-30.2896	0.2471
mult	-30.2896	0.2471
hybrid mult	-30.1954	0.2671
scaling	-30.2896	0.2471

Fold: gov-hi.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	X
exp	not F	not F
log	not F	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-28.3239	0.2017
poly2	-28.3898	0.1866
poly3	-28.2760	0.2126
exp	-28.1754	0.2349
log	-28.5844	0.1400
power	-28.4087	0.1822
mult	-28.4087	0.1822
hybrid mult	-28.3314	0.2000
scaling	-28.4087	0.1822

Fold: bible-hi.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	not F	not F
poly3	not F	not F
exp	X	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	X	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-27.7301	-0.0690
poly2	-27.3438	0.0427
poly3	-27.2781	0.0605
exp	-27.6986	-0.0594
log	-27.7092	-0.0626
power	-27.7511	-0.0754
mult	-27.7511	-0.0754
hybrid mult	-27.7324	-0.0697
scaling	-27.7316	-0.0694

Fold: gov-ta.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	X
exp	not F	not F
log	not F	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-28.9764	0.2343
poly2	-29.0160	0.2256
poly3	-28.8728	0.2567
exp	-28.8289	0.2659
log	-29.2918	0.1621
power	-29.0597	0.2159
mult	-29.0597	0.2159
hybrid mult	-28.9825	0.2330
scaling	-29.0597	0.2159

Fold: bible-ta.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	not F	X
poly3	not F	X
exp	X	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-27.8461	-0.0652
poly2	-27.4205	0.0568
poly3	-27.3053	0.0873
exp	-27.8132	-0.0552
log	-27.8325	-0.0610
power	-27.8529	-0.0672
mult	-27.8529	-0.0672
hybrid mult	-27.8525	-0.0671
scaling	-27.8257	-0.0589

Fold: bible-gu.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-22.7525	-0.0525
poly2	-22.8294	-0.0798
poly3	-22.8376	-0.0828
exp	-22.6551	-0.0189
log	-22.5752	0.0079
power	-22.6341	-0.0118
mult	-22.6341	-0.0118
hybrid mult	-22.6988	-0.0338
scaling	-22.6462	-0.0159

Fold: bible-si.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	not F	X
poly3	not F	X
exp	X	not F
log	X	not F
power	not F	not F
mult	not F	not F
hybrid mult	X	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-29.3513	-0.0282
poly2	-28.9601	0.0806
poly3	-28.9654	0.0792
exp	-29.3526	-0.0285
log	-29.3897	-0.0395
power	-29.4237	-0.0497
mult	-29.4237	-0.0497
hybrid mult	-29.3893	-0.0394
scaling	-29.4114	-0.0460

Fold: flores-si.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	X	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-19.2995	0.2988
poly2	-19.0673	0.3438
poly3	-18.8386	0.3853
exp	-19.6238	0.2307
log	-19.4001	0.2784
power	-18.8835	0.3774
mult	-18.8835	0.3774
hybrid mult	-18.6862	0.4115
scaling	-18.8835	0.3774

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-18.1067	0.1648
poly2	-17.6767	0.2763
poly3	-17.6614	0.2800
exp	-18.4738	0.0561
log	-17.8612	0.2304
power	-17.8842	0.2245
mult	-17.8842	0.2245
hybrid mult	-17.8087	0.2438
scaling	-17.8514	0.2329

Fold: flores-ta.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-17.0897	0.4799
poly2	-16.9917	0.4942
poly3	-16.8935	0.5082
exp	-22.7558	-1.6254
log	-17.8182	0.3595
power	-22.7558	-1.6254
mult	-22.7558	-1.6254
hybrid mult	-16.6039	0.5473
scaling	-16.7926	0.5222

1.2 slice: test, variables: size

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	X	not F
poly3	X	not F
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	not F
scaling	X	X

models	LogLikelyhood	R2 coefficient
linear	-137.6568	0.1801
poly2	-137.8068	0.1726
poly3	-137.2028	0.2024
exp	-137.0258	0.2109
log	-138.6462	0.1295
power	-137.9789	0.1640
mult	-137.9789	0.1640
hybrid mult	-137.6614	0.1799
scaling	-137.9789	0.1640

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	not F
exp	X	X
log	X	not F
power	X	not F
mult	X	not F
hybrid mult	X	X
scaling	X	not F

models	LogLikelyhood	R2 coefficient
linear	-132.0038	-0.0756
poly2	-130.3458	0.0273
poly3	-129.9383	0.0510
exp	-131.7342	-0.0581
log	-131.4905	-0.0426
power	-131.6457	-0.0525
mult	-131.6457	-0.0525
hybrid mult	-131.7799	-0.0611
scaling	-131.5156	-0.0442

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	X	X
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-103.4872	0.1096
poly2	-102.0407	0.1844
poly3	-100.7741	0.2446
exp	-103.3208	0.1186
log	-102.2535	0.1738
power	-101.3119	0.2196
mult	-101.3119	0.2196
hybrid mult	-101.1917	0.2253
scaling	-101.2977	0.2203

1.3 slice: lang, variables: size

Fold: si.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	not F
poly3	X	not F
exp	X	X
log	X	not F
power	X	X
mult	X	X
hybrid mult	X	X
scaling	X	not F

models	LogLikelyhood	R2 coefficient
linear	-89.1500	0.0125
poly2	-89.2919	-0.0009
poly3	-88.9283	0.0332
exp	-89.0203	0.0247
log	-88.9531	0.0309
power	-88.8905	0.0366
mult	-88.8905	0.0366
hybrid mult	-89.0559	0.0213
scaling	-88.9330	0.0327

Fold: gu.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-70.4186	-0.0361
poly2	-70.4162	-0.0359
poly3	-70.5989	-0.0571
exp	-70.1804	-0.0091
log	-69.9802	0.0131
power	-70.0839	0.0017
mult	-70.0839	0.0017
hybrid mult	-70.2834	-0.0207
scaling	-70.1058	-0.0007

Fold: ka.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	not F	not F
exp	not F	not F
log	not F	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-69.4955	-0.0135
poly2	-68.5449	0.0881
poly3	-68.7634	0.0657
exp	-69.1555	0.0241
log	-68.9318	0.0481
power	-68.7487	0.0672
mult	-68.7487	0.0672
hybrid mult	-69.2160	0.0175
scaling	-68.6758	0.0748

Fold: hi.csv

models	Normal Test	Homoscedasticity Test
linear	not F	not F
poly2	not F	not F
poly3	X	not F
exp	not F	X
log	X	not F
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F
scaling	X	not F

models	LogLikelyhood	R2 coefficient
linear	-83.1310	0.0016
poly2	-83.4267	-0.0269
poly3	-82.8380	0.0291
exp	-82.8723	0.0259
log	-82.8575	0.0273
power	-82.7468	0.0375
mult	-82.7468	0.0375
hybrid mult	-83.0015	0.0139
scaling	-82.8234	0.0305

Fold: ta.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	X	not F
poly3	X	not F
exp	X	X
log	X	not F
power	X	not F
mult	X	not F
hybrid mult	X	not F
scaling	X	not F

models	LogLikelyhood	R2 coefficient
linear	-85.0555	-0.0028
poly2	-85.0877	-0.0058
poly3	-84.6588	0.0344
exp	-84.8138	0.0201
log	-84.8444	0.0172
power	-84.6663	0.0337
mult	-84.6663	0.0337
hybrid mult	-84.9559	0.0067
scaling	-84.6952	0.0311

2 Experiment 2B

2.1 slice: lang, variables: jsd

Fold: si.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-89.5074	-0.0217
poly2	-89.4325	-0.0144
poly3	-89.3442	-0.0059
exp	-78.7171	0.6344
log	-73.3197	0.7813
power	-52.9826	0.9685
mult	-52.9826	0.9685
hybrid mult	-53.7375	0.9661

Fold: gu.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-70.4886	-0.0442
poly2	-70.4886	-0.0442
poly3	-70.4886	-0.0442
exp	-67.2615	0.2704
log	-61.0672	0.6334
power	-62.8424	0.5535
mult	-62.8424	0.5535
hybrid mult	-65.1495	0.4230

Fold: ka.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-69.7907	-0.0472
poly2	-69.7966	-0.0479
poly3	-69.7850	-0.0466
exp	-67.1134	0.2222
log	-60.7686	0.6157
power	-59.2971	0.6736
mult	-59.2971	0.6736
hybrid mult	-60.0089	0.6468

Fold: hi.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	not F

models	LogLikelyhood	R2 coefficient
linear	-83.5482	-0.0388
poly2	-83.7055	-0.0545
poly3	-83.5479	-0.0388
exp	-77.8857	0.3942
log	-69.8956	0.7170
power	-69.9596	0.7152
mult	-69.9596	0.7152
hybrid mult	-73.3024	0.6085

Fold: ta.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	not F	not F
mult	not F	not F
hybrid mult	not F	not F

models	LogLikelyhood	R2 coefficient
linear	-85.2829	-0.0247
poly2	-85.3692	-0.0332
poly3	-85.3951	-0.0357
exp	-77.0493	0.5322
log	-69.8579	0.7642
power	-60.2541	0.9055
mult	-60.2541	0.9055
hybrid mult	-60.1216	0.9067

3 Experiment 2C

3.1 slice: test, variables: inv+pho+syn+gen+geo

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	X	not F
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.3590	-0.0261
poly2	-141.4099	-0.0293
poly3	-141.5251	-0.0365
exp	-140.7671	0.0100
log	-141.3748	-0.0271
power	-140.9474	-0.0008
mult	-141.4802	-0.0337
hybrid mult	-141.2519	-0.0195
am	-141.2251	-0.0178
gm	-141.2269	-0.0179
hm	-141.2314	-0.0182

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	Χ
hm	X	Χ

models	LogLikelyhood	R2 coefficient
linear	-131.5552	-0.0467
poly2	-131.6354	-0.0518
poly3	-131.7263	-0.0576
exp	-131.1116	-0.0189
log	-131.4199	-0.0382
power	-130.8260	-0.0015
mult	-130.9702	-0.0102
hybrid mult	-131.0456	-0.0149
am	-131.4331	-0.0390
gm	-131.4428	-0.0396
hm	-131.4501	-0.0401

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	Χ
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	Χ
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-107.9267	-0.1652
poly2	-109.1203	-0.2527
poly3	-109.3360	-0.2691
exp	-119.5050	-1.3505
log	-108.2116	-0.1855
power	-105.5076	-0.0063
mult	-104.6104	0.0469
hybrid mult	-104.8292	0.0342
am	-108.1047	-0.1779
gm	-108.5080	-0.2070
hm	-108.6305	-0.2160

3.2 slice: test, variables: fea

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2739	-0.0208
poly2	-141.8203	-0.0552
poly3	-141.4820	-0.0338
exp	-140.8083	0.0076
log	-141.2741	-0.0209
power	-141.9328	-0.0624
mult	-141.9328	-0.0624
hybrid mult	-142.0187	-0.0680

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4377	-0.0393
poly2	-131.7208	-0.0573
poly3	-131.5237	-0.0447
exp	-131.0018	-0.0122
log	-131.3023	-0.0308
power	-131.5468	-0.0462
mult	-131.5468	-0.0462
hybrid mult	-132.8720	-0.1337

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.4578	-0.2034
poly2	-108.1466	-0.1809
poly3	-108.1199	-0.1790
exp	-106.1789	-0.0481
log	-108.1249	-0.1793
power	-105.8493	-0.0274
mult	-105.8493	-0.0274
hybrid mult	-106.4625	-0.0663

3.3 slice: test, variables: inv

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2378	-0.0186
poly2	-141.2776	-0.0211
poly3	-141.2676	-0.0204
exp	-140.7222	0.0127
log	-141.2141	-0.0171
power	-141.3939	-0.0283
mult	-141.3939	-0.0283
hybrid mult	-141.6865	-0.0467

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4262	-0.0386
poly2	-131.7417	-0.0586
poly3	-131.3999	-0.0369
exp	-130.8660	-0.0039
log	-131.3073	-0.0311
power	-130.9124	-0.0067
mult	-130.9124	-0.0067
hybrid mult	-130.9597	-0.0096

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.1269	-0.1795
poly2	-108.1349	-0.1800
poly3	-108.4436	-0.2023
exp	-106.0604	-0.0406
log	-108.1273	-0.1795
power	-105.0524	0.0211
mult	-105.0524	0.0211
hybrid mult	-104.9970	0.0243

3.4 slice: test, variables: gen+geo

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.1383	-0.0125
poly2	-141.3062	-0.0228
poly3	-141.7421	-0.0502
exp	-141.5519	-0.0382
log	-141.2739	-0.0208
power	-141.2961	-0.0222
mult	-141.7016	-0.0476
hybrid mult	-142.3516	-0.0897
am	-141.2777	-0.0211
gm	-141.2846	-0.0215
hm	-141.2252	-0.0178
diff	-141.4281	-0.0304

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.5833	-0.0485
poly2	-131.4932	-0.0428
poly3	-131.7397	-0.0585
exp	-131.2631	-0.0283
log	-131.4326	-0.0390
power	-131.0004	-0.0121
mult	-131.2714	-0.0289
hybrid mult	-132.0439	-0.0782
am	-131.4200	-0.0382
gm	-131.4303	-0.0388
hm	-131.4452	-0.0397
diff	-131.4014	-0.0370

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.1441	-0.1807
poly2	-107.7367	-0.1519
poly3	-109.3373	-0.2692
exp	-106.3692	-0.0603
log	-107.8975	-0.1632
power	-105.0001	0.0242
mult	-105.1016	0.0181
hybrid mult	-105.1764	0.0137
am	-108.1536	-0.1814
gm	-108.1317	-0.1798
hm	-108.5614	-0.2109
diff	-107.9574	-0.1674

3.5 slice: test, variables: inv+syn

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	X	not F
poly3	X	not F
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2132	-0.0171
poly2	-141.3858	-0.0278
poly3	-141.2536	-0.0196
exp	-140.7316	0.0122
log	-141.3873	-0.0279
power	-141.2465	-0.0191
mult	-141.2159	-0.0173
hybrid mult	-141.2846	-0.0215
am	-141.2261	-0.0179
gm	-141.2728	-0.0208
hm	-141.2741	-0.0209
diff	-141.4430	-0.0314

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4189	-0.0381
poly2	-131.6842	-0.0549
poly3	-131.5293	-0.0451
exp	-131.0850	-0.0173
log	-131.5475	-0.0462
power	-130.8689	-0.0041
mult	-130.9124	-0.0067
hybrid mult	-130.9597	-0.0096
am	-131.4330	-0.0390
gm	-131.4310	-0.0389
hm	-131.4360	-0.0392
diff	-131.8549	-0.0659

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.1356	-0.1801
poly2	-108.0363	-0.1730
poly3	-109.2085	-0.2594
exp	-106.6310	-0.0772
log	-108.1276	-0.1795
power	-105.5095	-0.0064
mult	-105.1058	0.0179
hybrid mult	-104.9967	0.0243
am	-108.3949	-0.1988
gm	-108.4231	-0.2008
hm	-108.4563	-0.2032
diff	-107.5754	-0.1407

3.6 slice: test, variables: inv+pho+syn

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	not F
poly3	X	not F
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2640	-0.0202
poly2	-141.2692	-0.0205
poly3	-141.1427	-0.0128
exp	-140.7317	0.0122
log	-141.5363	-0.0372
power	-141.0130	-0.0048
mult	-141.2155	-0.0172
hybrid mult	-141.6346	-0.0434
am	-141.2739	-0.0208
gm	-141.2283	-0.0180
hm	-141.2289	-0.0181

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	Χ
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.3956	-0.0366
poly2	-131.6027	-0.0497
poly3	-131.5341	-0.0454
exp	-131.0641	-0.0160
log	-131.6796	-0.0546
power	-130.8732	-0.0043
mult	-130.9167	-0.0070
hybrid mult	-130.9598	-0.0096
am	-131.4441	-0.0397
gm	-131.4500	-0.0401
hm	-131.4522	-0.0402

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
йm	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.7601	-0.2256
poly2	-108.1531	-0.1813
poly3	-108.8446	-0.2319
exp	-106.6415	-0.0779
log	-108.2682	-0.1896
power	-105.7286	-0.0199
mult	-105.0980	0.0183
hybrid mult	-105.0274	0.0225
am	-108.5585	-0.2107
gm	-108.6046	-0.2141
hm	-108.0550	-0.1743

3.7 slice: test, variables: syn

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	not F
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2248	-0.0178
poly2	-141.2109	-0.0169
poly3	-141.2848	-0.0215
exp	-140.7324	0.0121
log	-141.2728	-0.0208
power	-141.9460	-0.0633
mult	-141.9460	-0.0633
hybrid mult	-140.9800	-0.0028

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4139	-0.0378
poly2	-131.5701	-0.0477
poly3	-131.7691	-0.0604
exp	-131.0685	-0.0163
log	-131.4254	-0.0385
power	-131.6373	-0.0519
mult	-131.6373	-0.0519
hybrid mult	-130.8612	-0.0036

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3 exp	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.1263	-0.1794
poly2	-108.1459	-0.1808
poly3	-107.8766	-0.1617
exp	-106.6333	-0.0774
log	-108.1273	-0.1795
power	-105.4437	-0.0024
mult	-105.4437	-0.0024
hybrid mult	-108.1273	-0.1795

3.8 slice: test, variables: pho+syn

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	not F
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	not F

models	LogLikelyhood	R2 coefficient
linear	-141.6748	-0.0459
poly2	-141.2692	-0.0205
poly3	-141.3427	-0.0251
exp	-140.6939	0.0144
log	-141.5626	-0.0389
power	-141.2276	-0.0180
mult	-141.9451	-0.0632
hybrid mult	-141.8154	-0.0549
am	-141.2275	-0.0180
gm	-141.2268	-0.0179
hm	-141.2739	-0.0208
diff	-141.5773	-0.0398

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4375	-0.0393
poly2	-131.9719	-0.0735
poly3	-131.4751	-0.0416
exp	-131.0693	-0.0163
log	-131.4612	-0.0408
power	-131.1126	-0.0190
mult	-131.8198	-0.0636
hybrid mult	-133.3801	-0.1691
am	-131.4257	-0.0385
gm	-131.4425	-0.0396
hm	-131.4238	-0.0384
diff	-131.5452	-0.0461

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	not F	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.2597	-0.1890
poly2	-108.5475	-0.2099
poly3	-108.1002	-0.1776
exp	-106.6998	-0.0817
log	-109.8001	-0.3053
power	-105.6901	-0.0175
mult	-106.8158	-0.0894
hybrid mult	-107.5642	-0.1399
am	-108.0358	-0.1730
gm	-108.0385	-0.1732
hm	-108.1223	-0.1791
diff	-109.8963	-0.3130

3.9 slice: test, variables: pho

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2736	-0.0208
poly2	-141.2722	-0.0207
poly3	-141.2740	-0.0208
exp	-141.5663	-0.0391
log	-141.2403	-0.0188
power	-141.9451	-0.0632
mult	-141.9451	-0.0632
hybrid mult	-141.8155	-0.0549

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4820	-0.0421
poly2	-131.6340	-0.0517
poly3	-131.4742	-0.0416
exp	-131.5777	-0.0481
log	-131.3680	-0.0349
power	-131.8195	-0.0636
mult	-131.8195	-0.0636
hybrid mult	-132.4886	-0.1076

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	not F	X

models	LogLikelyhood	R2 coefficient
linear	-108.1273	-0.1795
poly2	-108.5309	-0.2087
poly3	-108.2519	-0.1884
exp	-106.7664	-0.0861
log	-108.1295	-0.1796
power	-106.8146	-0.0893
mult	-106.8146	-0.0893
hybrid mult	-107.7975	-0.1562

3.10 slice: test, variables: fea+inv+pho+syn+gen+geo

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	not F
poly2	X	not F
poly3	X	not F
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.3710	-0.0269
poly2	-141.4461	-0.0315
poly3	-141.5378	-0.0373
exp	-140.7394	0.0117
log	-141.3285	-0.0242
power	-140.9426	-0.0005
mult	-141.4799	-0.0337
hybrid mult	-141.7294	-0.0494
am	-141.2260	-0.0179
gm	-141.2855	-0.0216
hm	-141.2821	-0.0213

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
poly3 exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	Χ
ĥm	X	Χ

models	LogLikelyhood	R2 coefficient
linear	-131.6152	-0.0505
poly2	-131.7231	-0.0574
poly3	-131.9110	-0.0695
exp	-131.0655	-0.0161
log	-131.4253	-0.0385
power	-130.8197	-0.0011
mult	-131.0009	-0.0121
hybrid mult	-131.0264	-0.0137
am	-131.4329	-0.0390
gm	-131.4401	-0.0394
hm	-131.4500	-0.0401

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	Χ
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.6415	-0.2168
poly2	-108.9408	-0.2391
poly3	-108.7867	-0.2276
exp	-119.5050	-1.3505
log	-108.1604	-0.1819
power	-105.4844	-0.0049
mult	-104.7338	0.0398
hybrid mult	-104.6222	0.0462
am	-108.3916	-0.1985
gm	-108.0531	-0.1742
hm	-108.6038	-0.2141

3.11 slice: test, variables: gen

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	not F
mult	X	not F
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2503	-0.0194
poly2	-141.3313	-0.0244
poly3	-141.4094	-0.0293
exp	-141.4634	-0.0326
log	-141.2737	-0.0208
power	-141.0755	-0.0086
mult	-141.0755	-0.0086
hybrid mult	-141.2733	-0.0208

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3 exp	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4820	-0.0421
poly2	-131.4782	-0.0418
poly3	-131.3966	-0.0367
exp	-131.2629	-0.0283
log	-131.4257	-0.0385
power	-131.4490	-0.0400
mult	-131.4490	-0.0400
hybrid mult	-131.4256	-0.0385

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.0226	-0.1720
poly2	-108.3506	-0.1956
poly3	-108.3862	-0.1981
exp	-106.3713	-0.0604
log	-108.1280	-0.1795
power	-108.1266	-0.1794
mult	-108.1266	-0.1794
hybrid mult	-108.1269	-0.1795

3.12 slice: test, variables: inv+pho

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	Χ
power	X	X
mult	X	X
hybrid mult	X	X
am	X	Χ
gm	X	X
hm	X	X
diff	X	Χ

models	LogLikelyhood	R2 coefficient
linear	-141.2197	-0.0175
poly2	-141.1955	-0.0160
poly3	-141.2798	-0.0212
exp	-140.7104	0.0134
log	-141.2750	-0.0209
power	-141.2465	-0.0191
mult	-141.3939	-0.0283
hybrid mult	-141.6351	-0.0434
am	-141.2407	-0.0188
gm	-141.2739	-0.0208
hm	-141.2745	-0.0209
diff	-141.2741	-0.0209

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.3772	-0.0355
poly2	-131.5020	-0.0433
poly3	-131.4156	-0.0379
exp	-130.8660	-0.0039
log	-131.5871	-0.0487
power	-130.8687	-0.0040
mult	-130.9124	-0.0067
hybrid mult	-130.9596	-0.0096
am	-131.4266	-0.0386
gm	-131.4253	-0.0385
hm	-131.4739	-0.0416
diff	-131.4255	-0.0385

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X
diff	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.6937	-0.2207
poly2	-108.1307	-0.1797
poly3	-108.0052	-0.1708
exp	-106.0572	-0.0404
log	-108.5675	-0.2114
power	-105.8279	-0.0261
mult	-105.0907	0.0188
hybrid mult	-105.0270	0.0226
am	-107.7301	-0.1514
gm	-108.1273	-0.1795
hm	-107.6048	-0.1427
diff	-107.9907	-0.1698

3.13 slice: test, variables: geo

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.2658	-0.0203
poly2	-141.2714	-0.0207
poly3	-141.2601	-0.0200
exp	-141.1081	-0.0106
log	-141.2673	-0.0204
power	-141.7016	-0.0476
mult	-141.7016	-0.0476
hybrid mult	-142.3512	-0.0897

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	Χ
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4258	-0.0385
poly2	-131.2127	-0.0252
poly3	-131.5549	-0.0467
exp	-131.1802	-0.0232
log	-131.4398	-0.0394
power	-131.2714	-0.0289
mult	-131.2714	-0.0289
hybrid mult	-132.0430	-0.0781

Fold: flores.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.1275	-0.1795
poly2	-108.2957	-0.1916
poly3	-108.1341	-0.1800
exp	-106.6621	-0.0793
log	-107.8977	-0.1632
power	-105.1015	0.0181
mult	-105.1015	0.0181
hybrid mult	-105.1760	0.0137

3.14 slice: test, variables: fea+inv+pho+syn

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	not F
poly3	X	not F
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X

LogLikelyhood	R2 coefficient
-141.6197	-0.0425
-141.4836	-0.0339
-141.2586	-0.0199
-140.7224	0.0127
-141.2701	-0.0206
-140.9957	-0.0038
-141.2187	-0.0174
-141.2870	-0.0216
-141.2274	-0.0180
-141.2267	-0.0179
-141.2739	-0.0208
	$\begin{array}{c} -141.6197 \\ -141.4836 \\ -141.2586 \\ -140.7224 \\ -141.2701 \\ -140.9957 \\ -141.2187 \\ -141.2870 \\ -141.2274 \\ -141.2267 \end{array}$

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.6382	-0.0520
poly2	-131.6127	-0.0504
poly3	-131.6295	-0.0514
exp	-131.0357	-0.0143
log	-131.3184	-0.0318
power	-130.8628	-0.0037
mult	-130.9151	-0.0069
hybrid mult	-130.9597	-0.0096
am	-131.4460	-0.0398
gm	-131.4456	-0.0398
hm	-131.4502	-0.0401

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.5159	-0.2076
poly2	-108.5724	-0.2117
poly3	-119.5050	-1.3505
exp	-119.5050	-1.3505
log	-108.2639	-0.1893
power	-105.5895	-0.0113
mult	-105.0896	0.0188
hybrid mult	-105.0311	0.0223
am	-108.5339	-0.2089
gm	-108.5663	-0.2113
ĥm	-108.6026	-0.2140

3.15 slice: test, variables: fea+gen+geo

Fold: gov.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	not F
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-141.3104	-0.0231
poly2	-141.4813	-0.0338
poly3	-141.4429	-0.0313
exp	-140.8526	0.0049
log	-141.5748	-0.0396
power	-141.1348	-0.0123
mult	-141.6773	-0.0461
hybrid mult	-142.4472	-0.0961
am	-141.2224	-0.0177
gm	-141.2849	-0.0215
hm	-141.2265	-0.0179

Fold: bible.csv

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
hm	X	X

models	LogLikelyhood	R2 coefficient
linear	-131.4211	-0.0382
poly2	-131.7020	-0.0561
poly3	-131.6407	-0.0521
exp	-131.1565	-0.0217
log	-131.2467	-0.0273
power	-130.8629	-0.0037
mult	-131.0841	-0.0172
hybrid mult	-131.3120	-0.0314
am	-131.4182	-0.0380
gm	-131.4330	-0.0390
ĥm	-131.4424	-0.0396

models	Normal Test	Homoscedasticity Test
linear	X	X
poly2	X	X
poly3	X	X
exp	X	X
log	X	X
power	X	X
mult	X	X
hybrid mult	X	X
am	X	X
gm	X	X
ĥm	X	X

models	LogLikelyhood	R2 coefficient
linear	-108.5646	-0.2112
poly2	-108.7678	-0.2262
poly3	-108.8547	-0.2326
exp	-106.3746	-0.0606
log	-107.9008	-0.1634
power	-105.7156	-0.0191
mult	-105.1041	0.0180
hybrid mult	-105.1767	0.0136
am	-108.0963	-0.1773
gm	-108.3887	-0.1983
hm	-108.0714	-0.1755