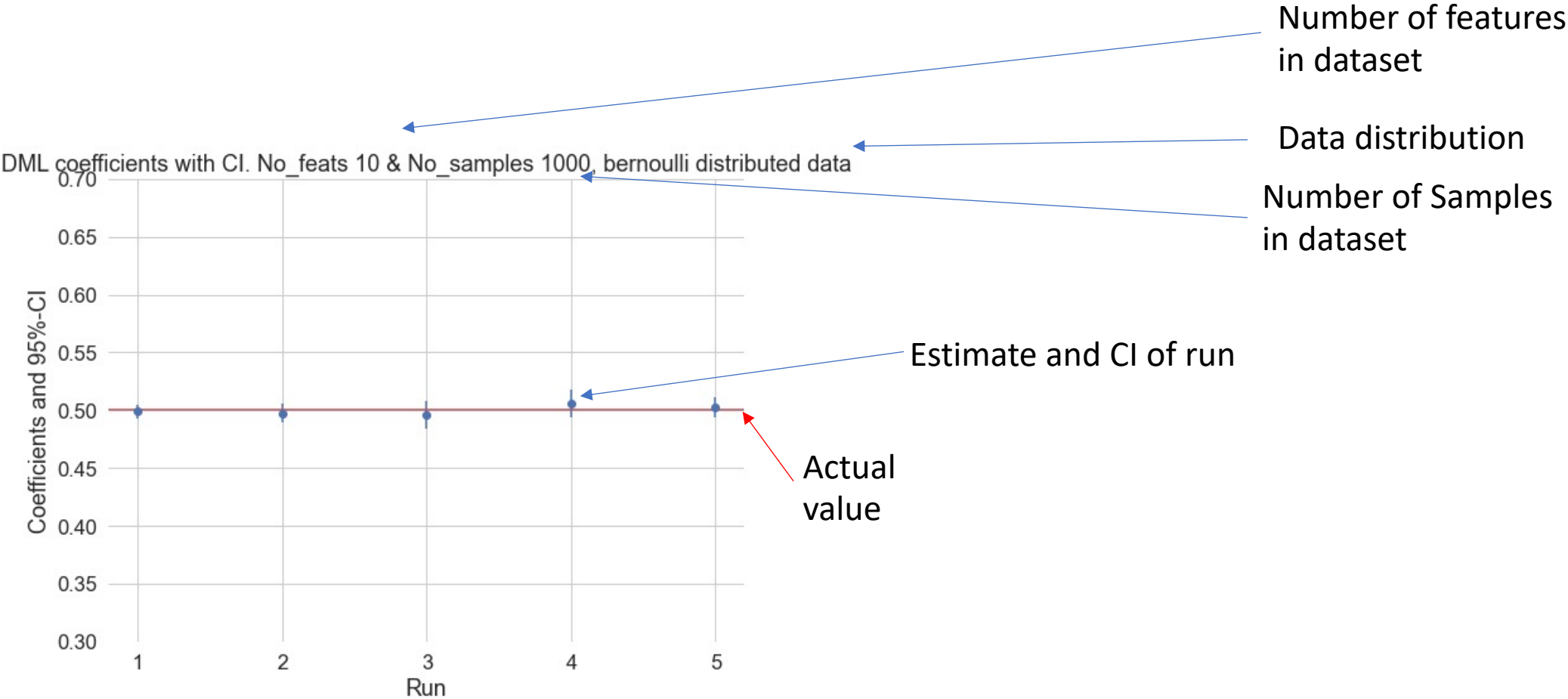


DML coefficient estimation



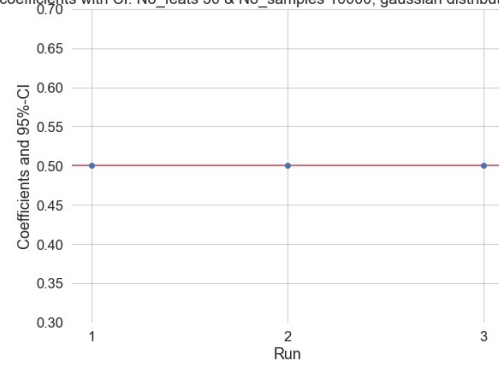
OLS	OLS LB 95	OLS UB 95	DML1	2.5 %	97.5 %
3.697	3.494	3.494	0.499	0.493	0.505
4.506	4.254	4.254	0.498	0.49	0.505
6.128	5.77	5.77	0.496	0.484	0.508
5.737	5.41	5.41	0.506	0.494	0.518
4.824	4.554	4.554	0.502	0.494	0.511

Table of Estimates and CI from each run including the OLS estimation

- Comparison of using Bernoulli/ Gaussian features to predict Continuous Y target.
- Noise = increasing the std of a normal continuous random variable centered around 0.

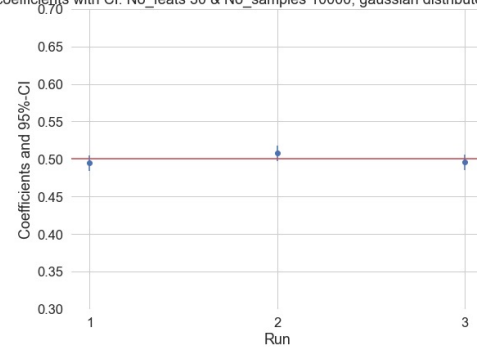
# 10,000 feats Gaussian

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 0



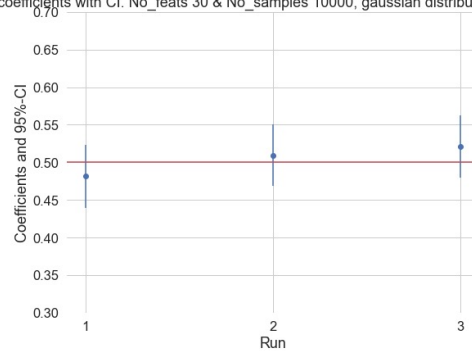
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 0.5



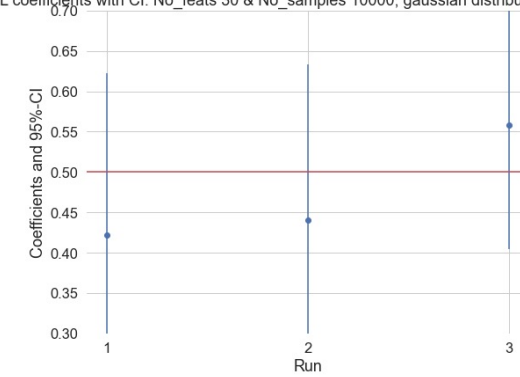
OLS	OLS LB	OLS UB
0.495	0.484	0.505
0.508	0.497	0.518
0.496	0.485	0.506

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 2



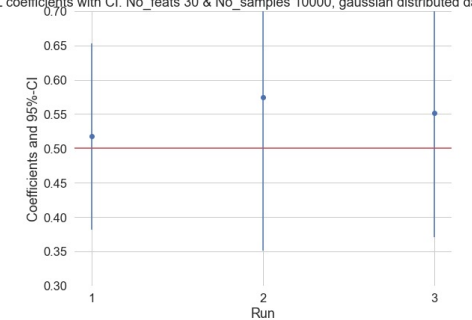
OLS	OLS LB	OLS UB
0.482	0.44	0.523
0.509	0.468	0.55
0.521	0.48	0.562

DML coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 0



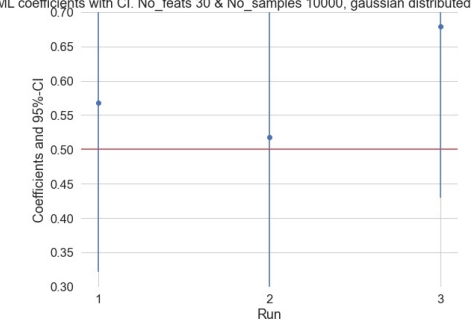
DML	DML LB	DML UB
0.422	0.222	0.622
0.44	0.247	0.633
0.558	0.405	0.712

DML coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 0.5



DML	DML LB	DML UB
0.517	0.382	0.653
0.575	0.351	0.799
0.551	0.37	0.732

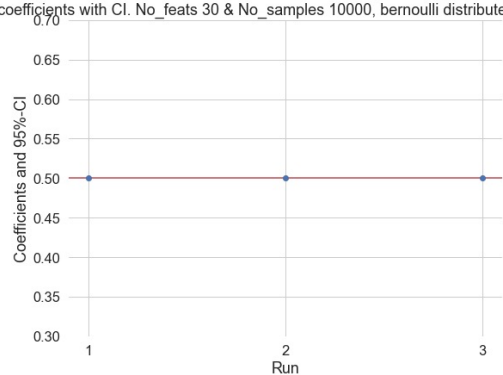
DML coefficients with CI. No\_feats 30 & No\_samples 10000, gaussian distributed data, noise 2



DML	DML LB	DML UB
0.567	0.321	0.814
0.518	0.268	0.768
0.679	0.43	0.928

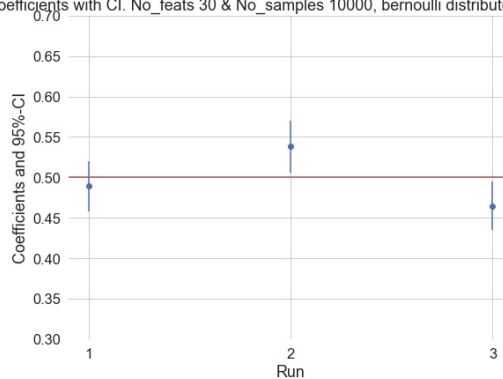
# 10,000 Bernoilli

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 0



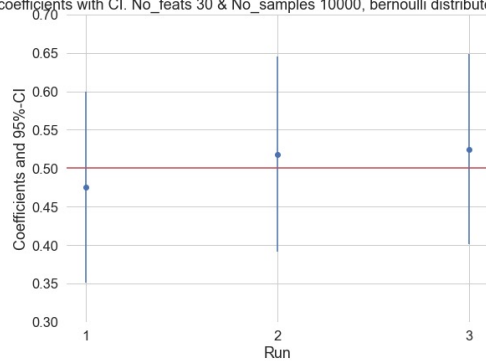
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 0.5



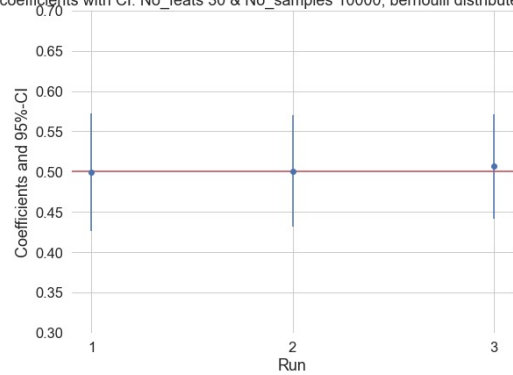
OLS	OLS LB	OLS UB
0.489	0.458	0.52
0.538	0.506	0.571
0.465	0.435	0.495

OLS coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 2



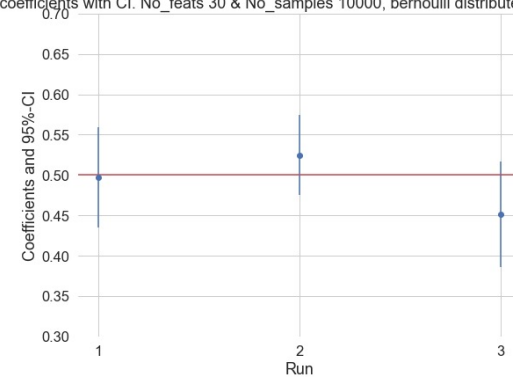
OLS	OLS LB	OLS UB
0.475	0.351	0.6
0.518	0.391	0.645
0.525	0.401	0.648

DML coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 0



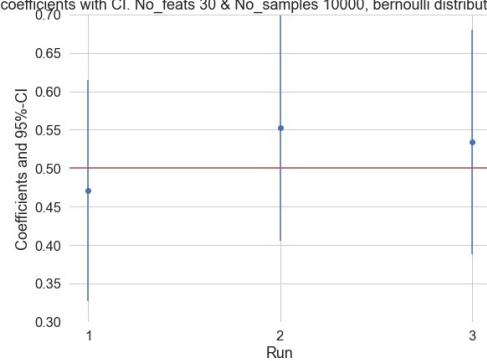
DML	DML LB	DML UB
0.499	0.426	0.572
0.501	0.432	0.57
0.506	0.441	0.571

DML coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 0.5



DML	DML LB	DML UB
0.497	0.435	0.559
0.525	0.475	0.574
0.452	0.386	0.517

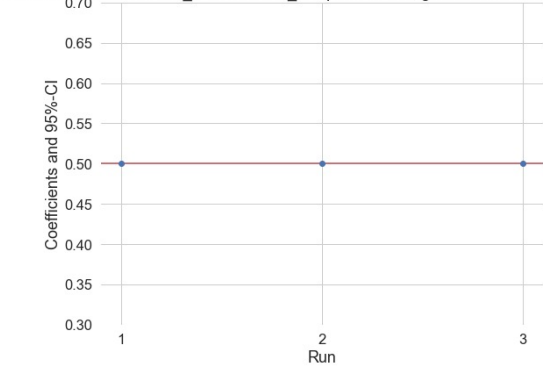
DML coefficients with CI. No\_feats 30 & No\_samples 10000, bernoulli distributed data, noise 2



DML	DML LB	DML UB
0.471	0.327	0.615
0.552	0.406	0.699
0.534	0.388	0.68

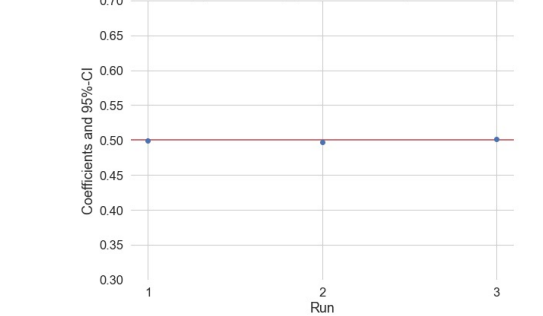
# 100,000 Gaussian

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 0



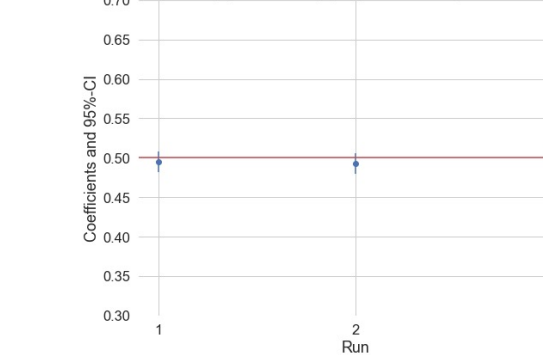
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 0.5



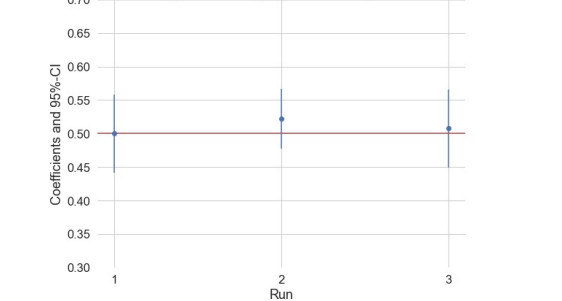
OLS	OLS LB	OLS UB
0.5	0.496	0.503
0.497	0.494	0.5
0.502	0.498	0.505

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 2



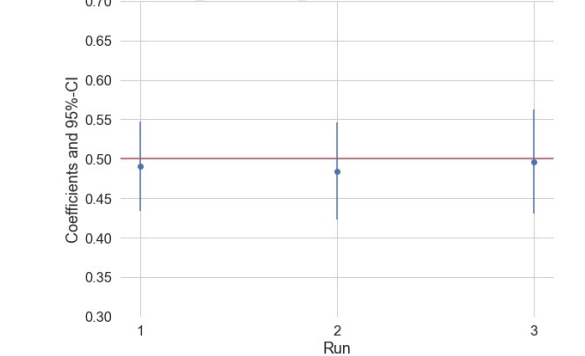
OLS	OLS LB	OLS UB
0.495	0.482	0.508
0.492	0.479	0.506
0.507	0.494	0.52

DML coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 0



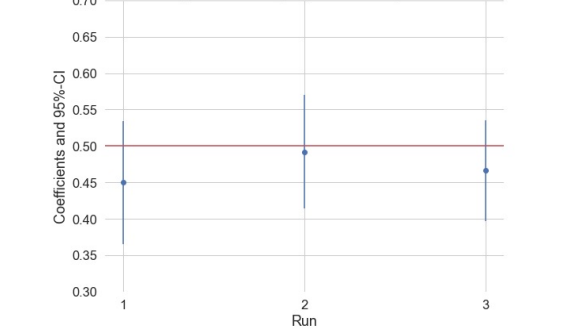
DML	DML LB	DML UB
0.5	0.442	0.558
0.522	0.477	0.566
0.507	0.449	0.566

DML coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 0.5



DML	DML LB	DML UB
0.49	0.434	0.547
0.484	0.423	0.546
0.496	0.431	0.562

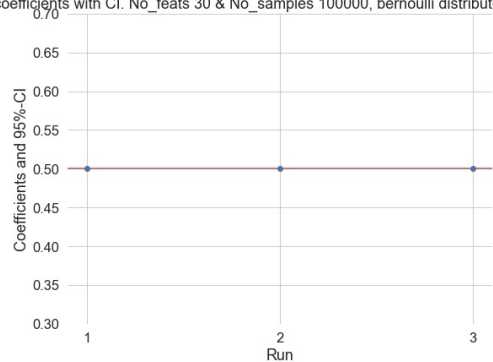
DML coefficients with CI. No\_feats 30 & No\_samples 100000, gaussian distributed data, noise 2



DML	DML LB	DML UB
0.45	0.366	0.534
0.492	0.414	0.57
0.466	0.397	0.535

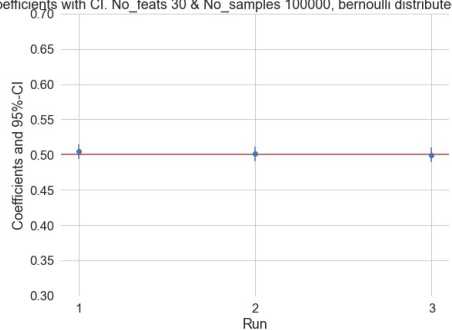
# 100,000 Bernoulli

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 0



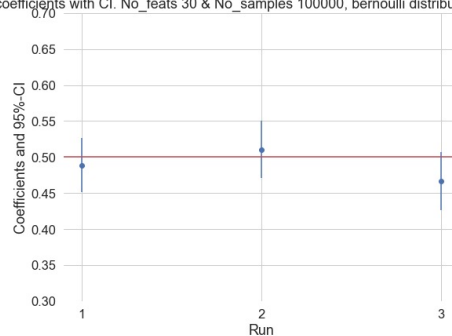
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 0.5



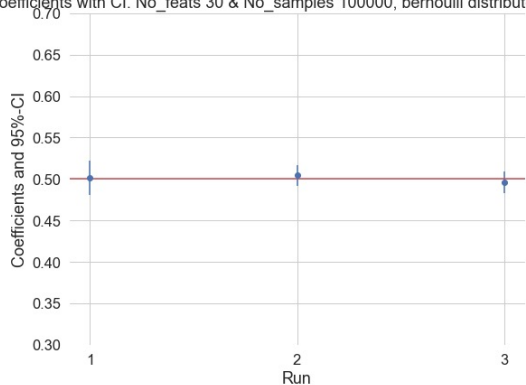
OLS	OLS LB	OLS UB
0.504	0.494	0.514
0.501	0.491	0.511
0.5	0.489	0.51

OLS coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 2



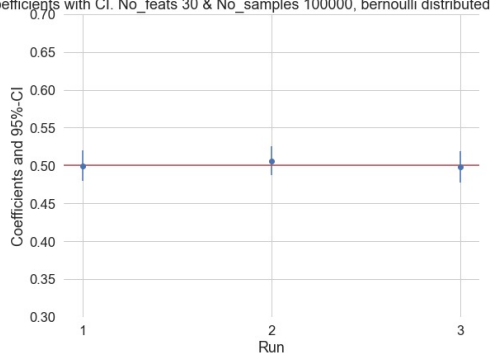
OLS	OLS LB	OLS UB
0.489	0.451	0.526
0.51	0.471	0.55
0.467	0.426	0.507

DML coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 0



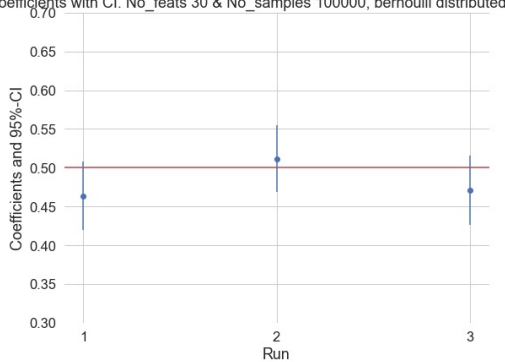
DML	DML LB	DML UB
0.501	0.48	0.522
0.504	0.492	0.517
0.496	0.483	0.509

DML coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 0.5



DML	DML LB	DML UB
0.5	0.479	0.52
0.506	0.487	0.525
0.498	0.478	0.518

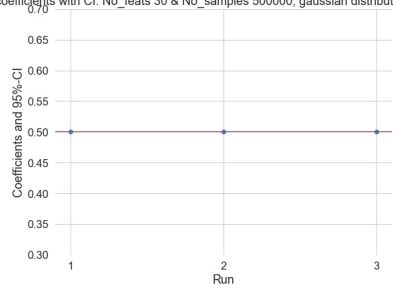
DML coefficients with CI. No\_feats 30 & No\_samples 100000, bernoulli distributed data, noise 2



DML	DML LB	DML UB
0.463	0.42	0.507
0.511	0.468	0.555
0.471	0.427	0.516

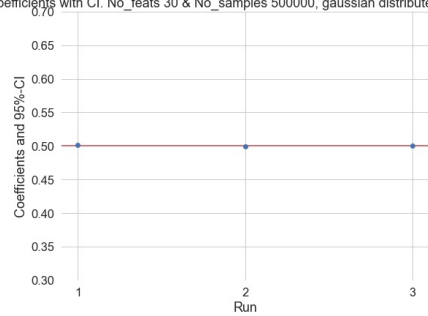
# 500,000 Gaussian

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 0



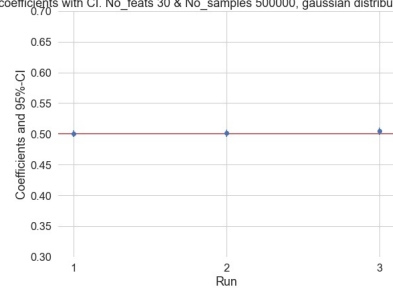
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 0.5



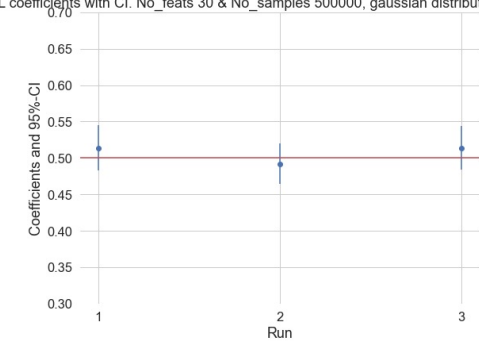
OLS	OLS LB	OLS UB
0.501	0.5	0.503
0.499	0.497	0.5
0.5	0.499	0.502

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 2



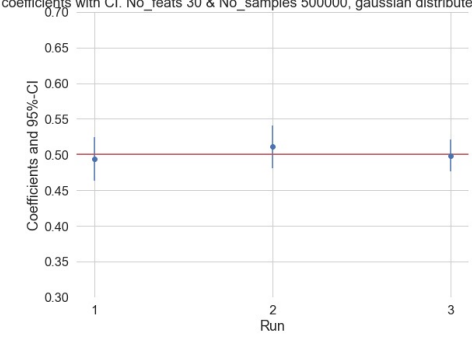
OLS	OLS LB	OLS UB
0.5	0.494	0.506
0.501	0.495	0.507
0.505	0.499	0.51

DML coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 0



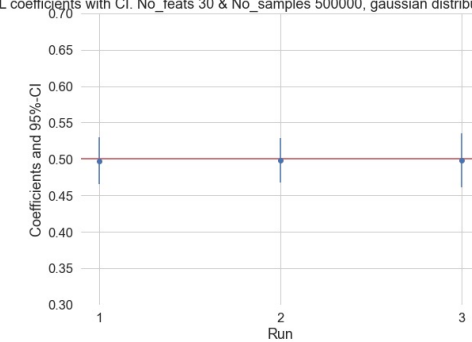
DML	DML LB	DML UB
0.514	0.483	0.545
0.492	0.464	0.519
0.514	0.484	0.544

DML coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 0.5



DML	DML LB	DML UB
0.494	0.464	0.524
0.511	0.481	0.541
0.499	0.476	0.521

DML coefficients with CI. No\_feats 30 & No\_samples 500000, gaussian distributed data, noise 2

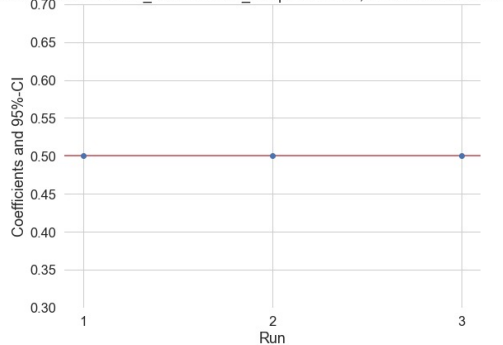


DML	DML LB	DML UB
0.497	0.465	0.53
0.498	0.468	0.529
0.498	0.461	0.535



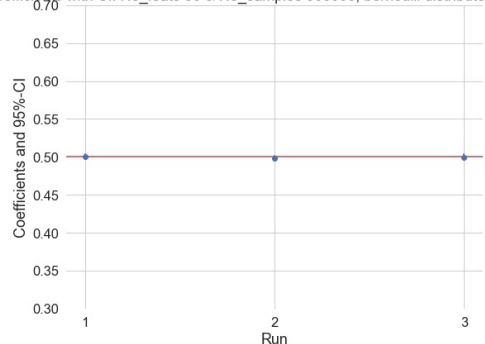
# 500,000 Bernoulli

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 0



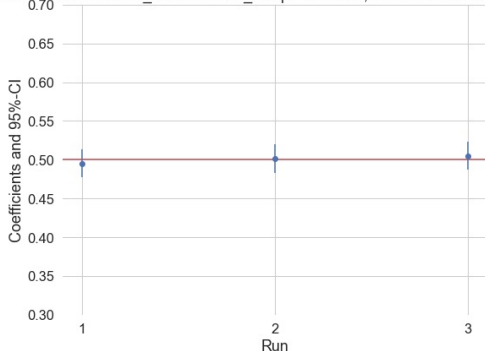
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 0.5



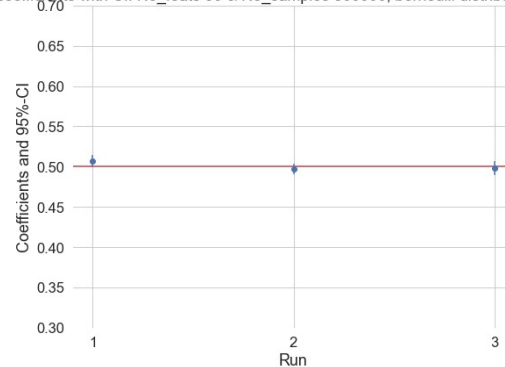
OLS	OLS LB	OLS UB
0.5	0.496	0.505
0.498	0.494	0.503
0.5	0.495	0.504

OLS coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 2



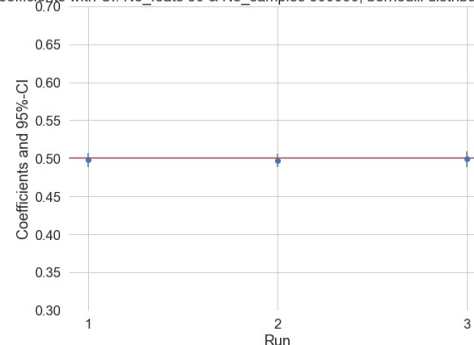
OLS	OLS LB	OLS UB
0.495	0.478	0.513
0.501	0.483	0.52
0.505	0.487	0.523

DML coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 0



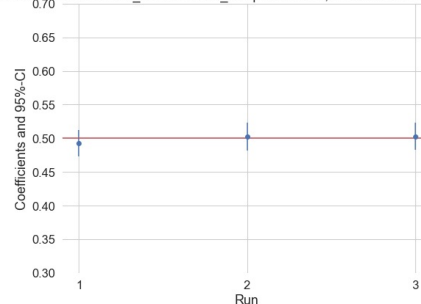
DML	DML LB	DML UB
0.507	0.499	0.515
0.497	0.49	0.504
0.498	0.49	0.507

DML coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 0.5



DML	DML LB	DML UB
0.498	0.488	0.507
0.497	0.488	0.506
0.499	0.489	0.509

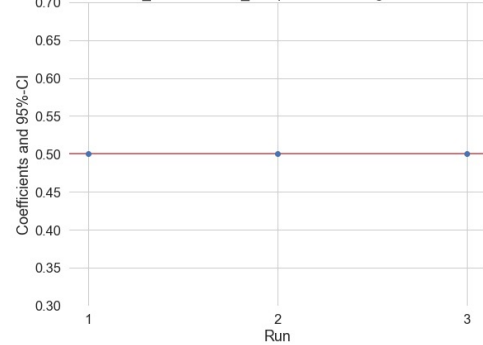
DML coefficients with CI. No\_feats 30 & No\_samples 500000, bernoulli distributed data, noise 2



DML	DML LB	DML UB
0.492	0.473	0.512
0.503	0.482	0.523
0.503	0.483	0.523

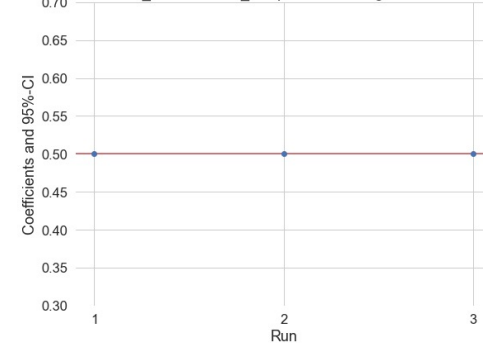
# 1,000,000 Gaussian

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 0



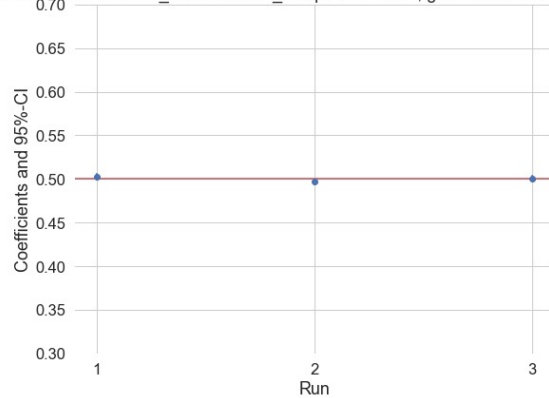
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 0.5



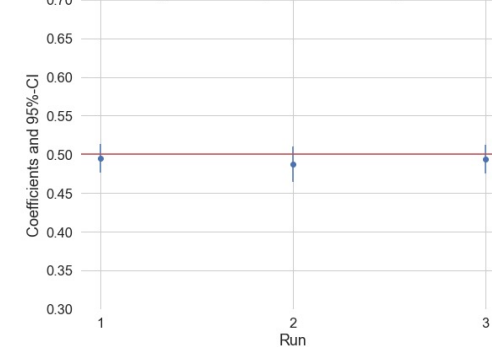
OLS	OLS LB	OLS UB
0.5	0.499	0.501
0.501	0.5	0.502
0.5	0.499	0.501

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 2



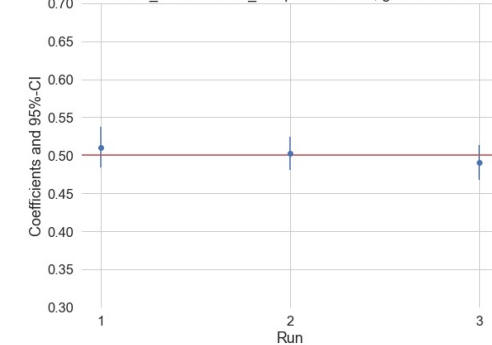
OLS	OLS LB	OLS UB
0.503	0.499	0.507
0.497	0.492	0.501
0.5	0.496	0.505

DML coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 0



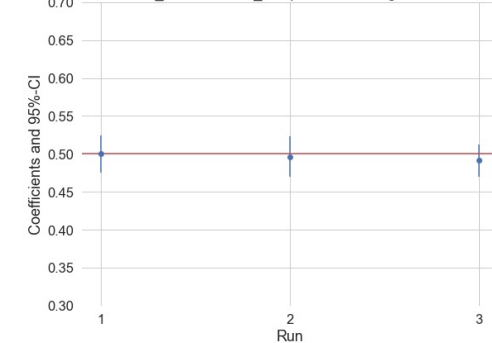
DML	DML LB	DML UB
0.495	0.476	0.514
0.487	0.465	0.51
0.494	0.475	0.512

DML coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 0.5



DML	DML LB	DML UB
0.51	0.484	0.537
0.503	0.481	0.525
0.491	0.468	0.514

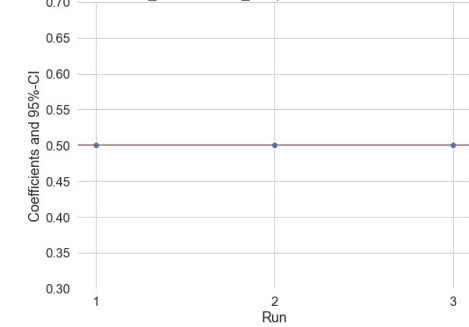
DML coefficients with CI. No\_feats 30 & No\_samples 1000000, gaussian distributed data, noise 2



DML	DML LB	DML UB
0.5	0.476	0.524
0.496	0.47	0.523
0.491	0.47	0.513

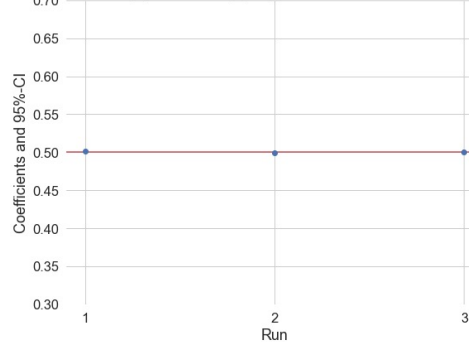
# 1,000,000 Bernoulli

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 0



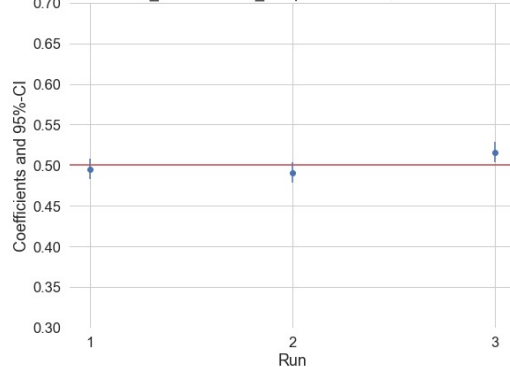
OLS	OLS LB	OLS UB
0.5	0.5	0.5
0.5	0.5	0.5
0.5	0.5	0.5

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 0.5



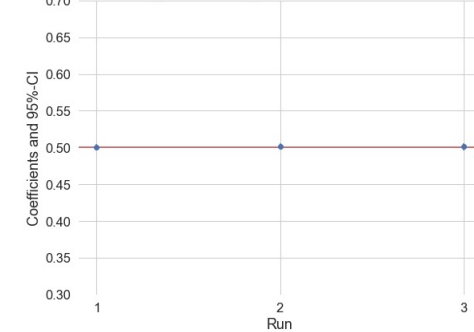
OLS	OLS LB	OLS UB
0.501	0.498	0.504
0.5	0.497	0.503
0.501	0.498	0.504

OLS coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 2



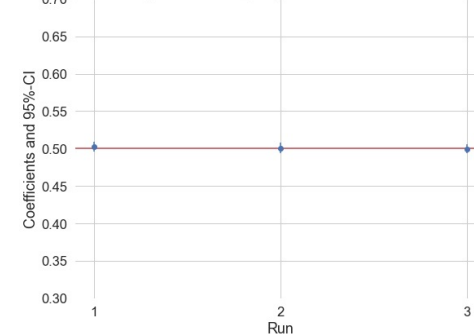
OLS	OLS LB	OLS UB
0.495	0.483	0.508
0.491	0.479	0.503
0.516	0.504	0.528

DML coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 0



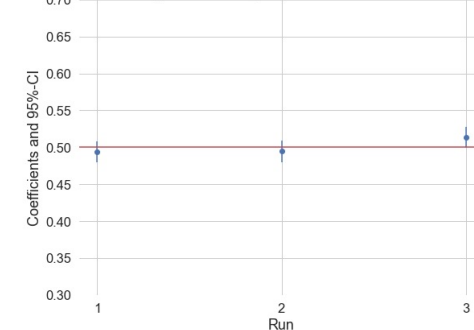
DML	DML LB	DML UB
0.501	0.497	0.505
0.502	0.498	0.506
0.501	0.496	0.506

DML coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 0.5



DML	DML LB	DML UB
0.502	0.496	0.509
0.501	0.493	0.508
0.5	0.493	0.506

DML coefficients with CI. No\_feats 30 & No\_samples 1000000, bernoulli distributed data, noise 2



DML	DML LB	DML UB
0.493	0.479	0.508
0.494	0.48	0.509
0.514	0.499	0.528