```
julia> include("/Users/rob/.julia/dev/DynamicHMCModels/scripts/ProbabilityModels/LR.jl")
    Defined model: LogisticRegressionModel.
    Unknowns: μ1, β1, y, μ0, σ0, β0, X, σ1.

408

ProbabilityModels result:

MCMC, adapting ϵ (75 steps)
5.8e-5 s/step ...done
MCMC, adapting ϵ (25 steps)
7.6e-5 s/step ...done
MCMC, adapting ϵ (50 steps)
7.8e-5 s/step ...done
MCMC, adapting ϵ (100 steps)
7.7e-5 s/step ...done
MCMC, adapting ϵ (200 steps)
6.6e-5 s/step ...done
MCMC, adapting ϵ (400 steps)
7.5e-5 s/step ...done
MCMC, adapting ϵ (50 steps)
6.5e-5 s/step ...done
MCMC (40000 steps)
step 14149 (of 40000), 7.1e-5 s/step
step 28136 (of 40000), 7.1e-5 s/step
7.1e-5 s/step ...done
  4.731292 seconds (7.11 M allocations: 1.211 GiB, 4.20% gc time)
2-element Array{ChainDataFrame,1}
```

Summary Statistics

Row	parameters Symbol	mean Float64	std Float64	naive_se Float64	mcse Float64	ess Any
1	β0	0.0826644	0.0968519	0.00048426	0.00045347	40000.0
2	β1[1]	−1.76833	0.141579	0.000707896	0.000808584	40000.0
3	β1[2]	−1.63565	0.141615	0.000708074	0.000806777	40000.0
4	β1[3]	−0.24055	0.094769	0.000473845	0.000448895	40000.0
5	β1[4]	0.725848	0.102635	0.000513176	0.000495735	40000.0

Quantiles

Row	parameters Symbol	2.5% Float64	25.0% Float64	50.0% Float64	75.0% Float64	97.5% Float64
1	β0	−0.10688	0.0169645	0.0826647	0.148088	0.273581
2	β1[1]	−2.05425	−1.86242	−1.76547	−1.67131	−1.49745
3	β1[2]	−1.92046	−1.7298	−1.63365	−1.53845	−1.36583
4	β1[3]	−0.427481	−0.304221	−0.240032	−0.17679	−0.0566982
5	β1[4]	0.529989	0.655717	0.724278	0.793476	0.931554

CmdStan result:

```
  5.983267 seconds (4.02 M allocations: 169.474 MiB, 1.10% gc time)
2-element Array{ChainDataFrame,1}
```

Summary Statistics

Row	parameters Symbol	mean Float64	std Float64	naive_se Float64	mcse Float64	ess Any
1	beta0	0.0830798	0.0966846	0.000483423	0.000465577	40000.0
2	beta1.1	−1.76771	0.141411	0.000707055	0.00080182	40000.0
3	beta1.2	−1.63581	0.140257	0.000701283	0.000777791	40000.0
4	beta1.3	−0.24088	0.0957332	0.000478666	0.000445657	40000.0
5	beta1.4	0.727284	0.101893	0.000509467	0.00053683	40000.0

Quantiles

Row	parameters Symbol	2.5% Float64	25.0% Float64	50.0% Float64	75.0% Float64	97.5% Float64
1	beta0	−0.105526	0.0175036	0.0827149	0.148546	0.274493
2	beta1.1	−2.05568	−1.86109	−1.76368	−1.67121	−1.49952
3	beta1.2	−1.91881	−1.72872	−1.63269	−1.54033	−1.36793

| 4 | beta1.3 | −0.429346 | −0.306006 | −0.240644 | −0.17605 | −0.0546177 |
| 5 | beta1.4 | 0.531337 | 0.657685 | 0.725898 | 0.795382 | 0.930155 |