## ====separated, not sufficient=====

Classification: Hypertension; Ground truth: Hyperlipidemia; Protected attribute: Gender

P(Hypertension = YES | Hyperlipidemia = YES, Gender = Female ) = 0.5560581928250616

P(Hypertension = YES | Hyperlipidemia = YES) = 0.5560581928250615

P(Hyperlipidemia = YES | Hypertension = YES, Gender = Female ) = 0.42323725495874925

P(Hyperlipidemia = YES | Hypertension = YES ) = 0.4639580370746129

## Joint probability table:

Hyperlipidemia	Hypertension	Gender	P(hl, ht, gd)
YES	YES	Male	0.12861701690851696
YES	YES	Female	0.09663169921848298
YES	NO	Male	0.102684344294483
YES	NO	Female	0.07714813257851699
NO	YES	Male	0.128561034877262
NO	YES	Female	0.13168397499573803
NO	NO	Male	0.165328855780738
NO	NO	Female	0.16934494134626202

## ====sufficient, not separated=====

Classification: Hyperlipidemia; Ground truth: Diabetes; Protected attribute: Gender

P(Hyperlipidemia = YES | Diabetes = YES, Gender = Female ) = 0.49198555817121536

P(Hyperlipidemia = YES | Diabetes = YES ) = 0.5332058613502546

P(Diabetes = YES | Hyperlipidemia = YES, Gender = Female ) = 0.6459421684394565

P(Diabetes = YES | Hyperlipidemia = YES ) = 0.6459421684394565

## Joint probability table:

Hyperlipidemia	Diabetes	Gender	P(hl, db, gd)
YES	YES	Male	0.14940730281846376
YES	YES	Female	0.11225172138199817
YES	NO	Male	0.0818940583845362
YES	NO	Female	0.061528110415001794
NO	YES	Male	0.11316005391439127
NO	YES	Female	0.11590888113498377
NO	NO	Male	0.1807298367436088
NO	NO	Female	0.18512003520701628