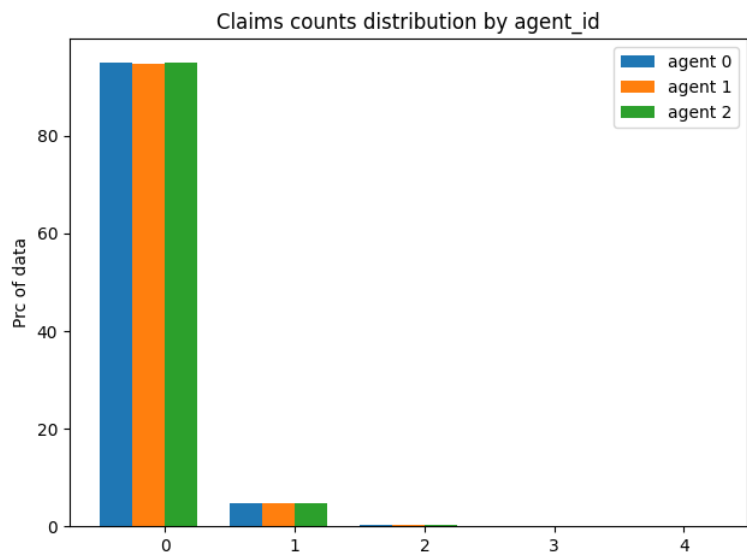
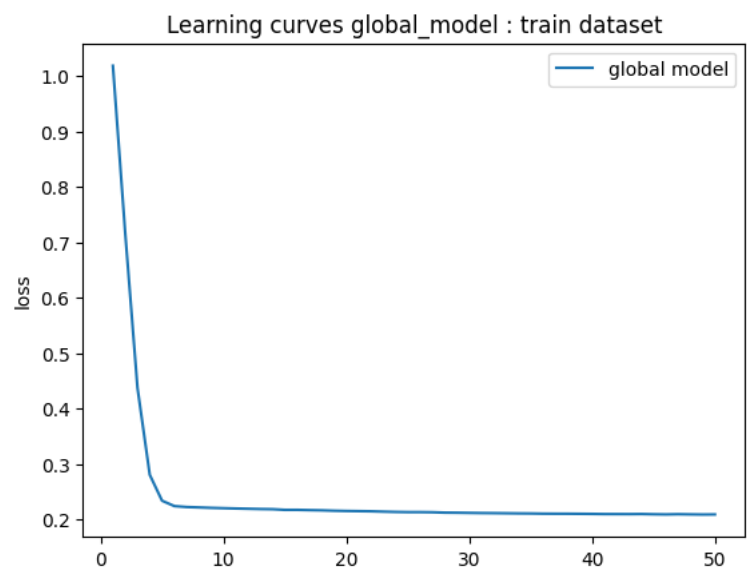


Run Results: num\_agents: 5; num\_rounds: 5; epochs: 10; epochs local and global: 50

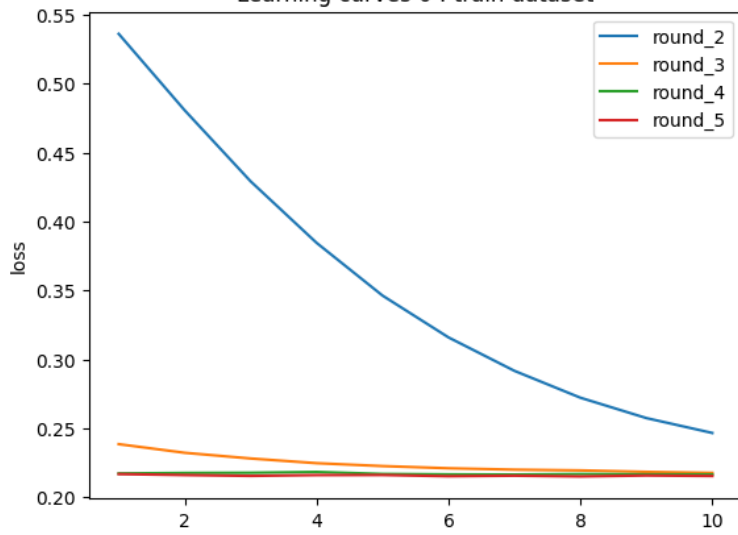
Input Data: Distribution of numbers of observed claims by FL participating parties.



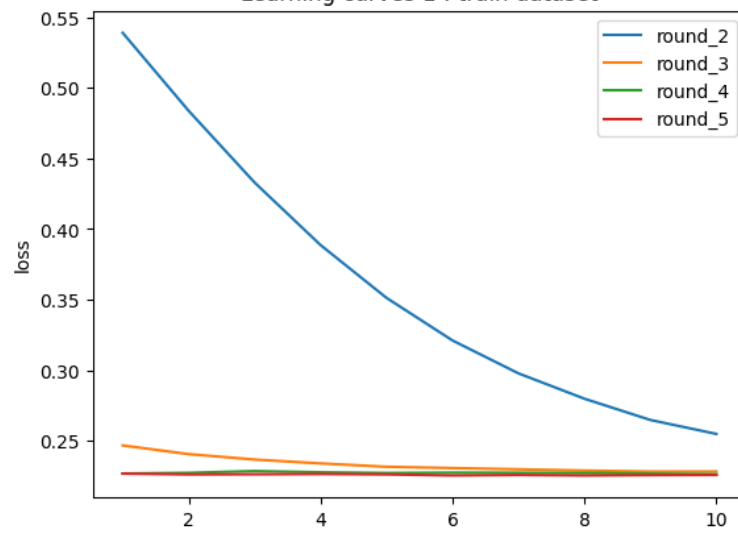
Model Training: Learning curves; Train dataset



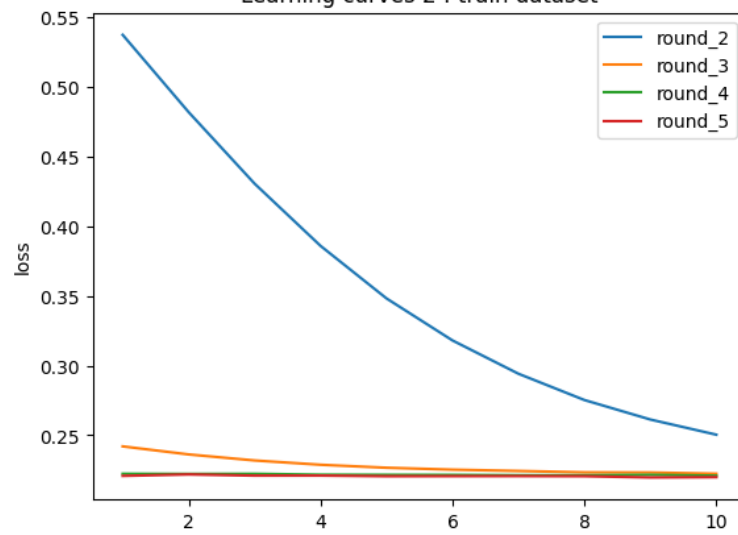
Learning curves 0 : train dataset



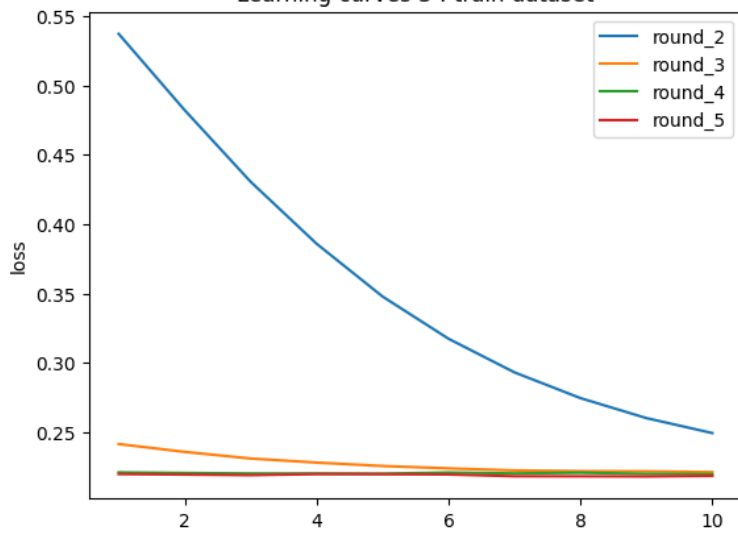
Learning curves 1 : train dataset



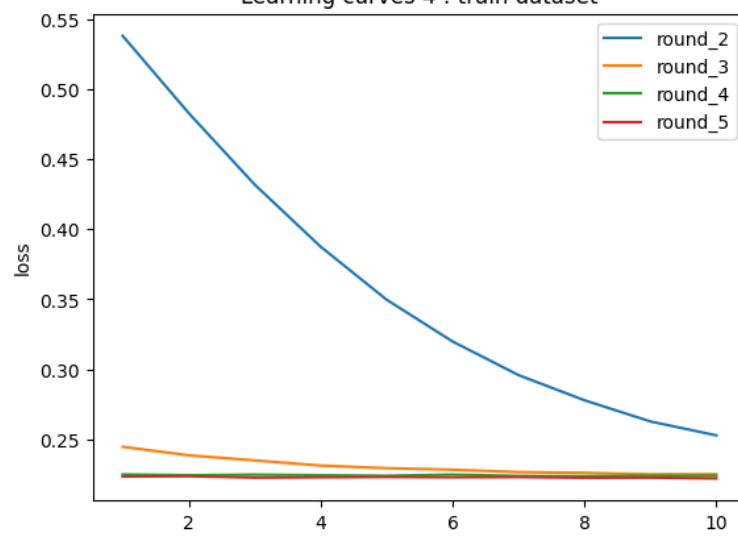
Learning curves 2 : train dataset



Learning curves 3 : train dataset

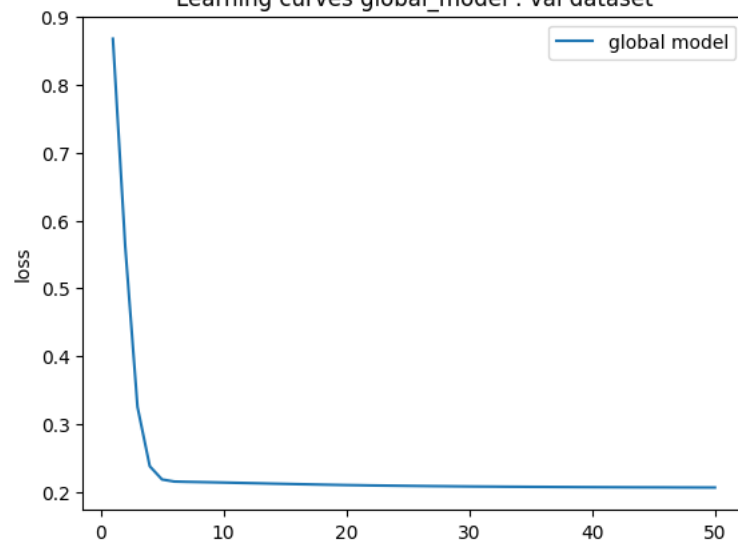


Learning curves 4 : train dataset

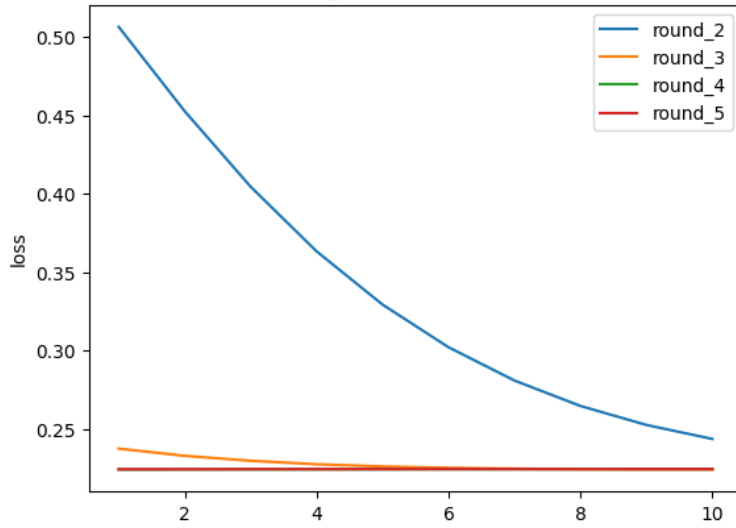


## Model Training: Learning curves; Validation dataset

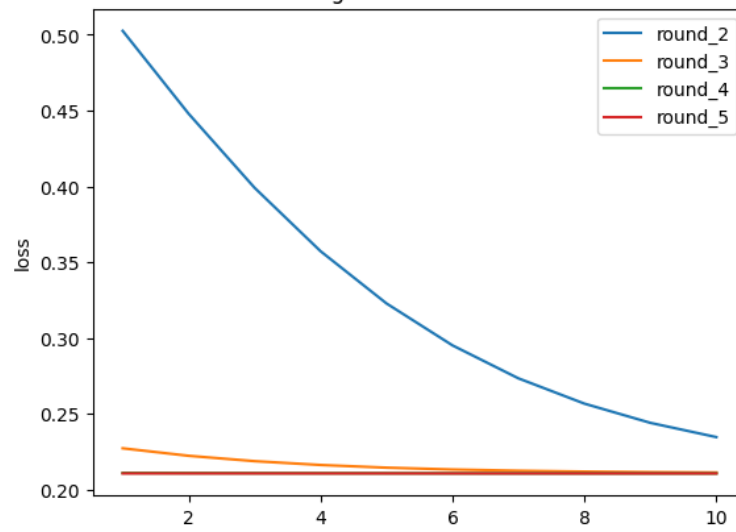
Learning curves global\_model : val dataset



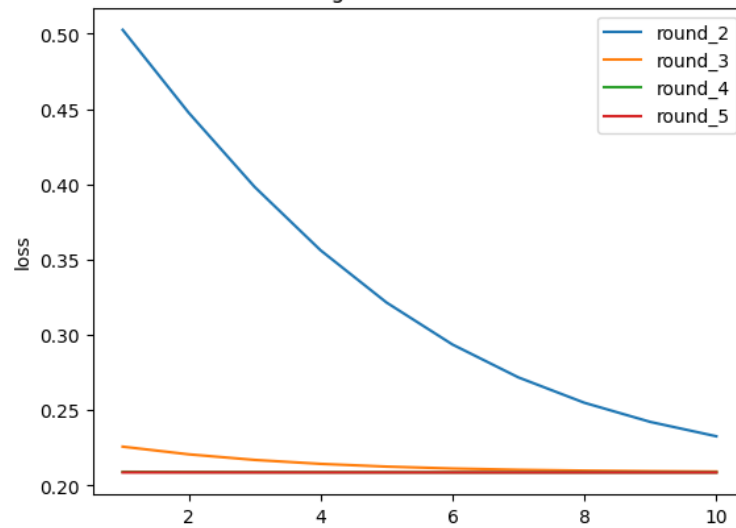
Learning curves 0 : val dataset

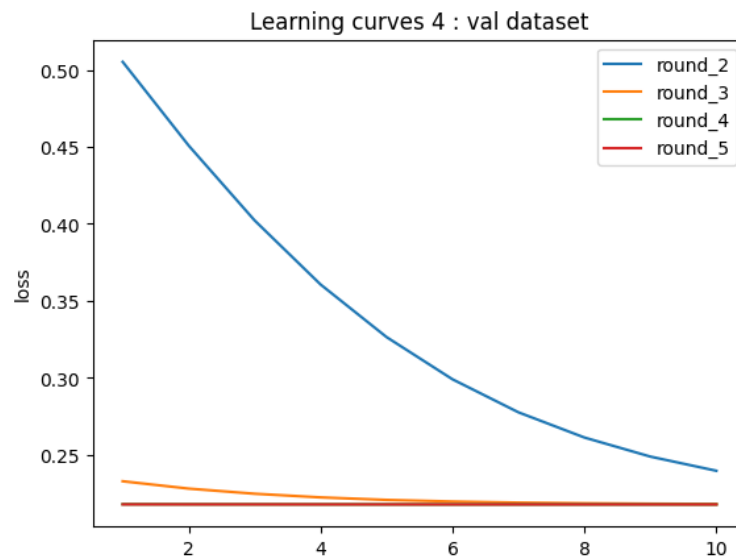
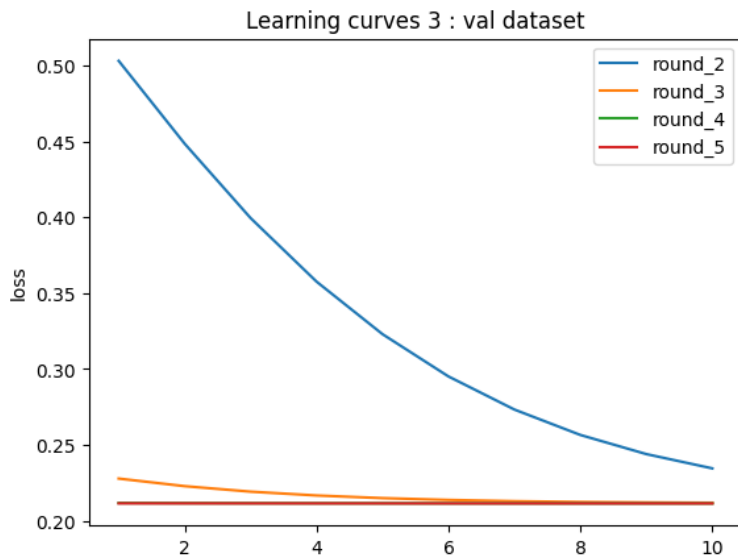


Learning curves 1 : val dataset



Learning curves 2 : val dataset





### Test statistics for FL model

Mean Poisson Deviance : 0.3237269689667244

Mean Squared Error : 0.05685399397658247

$R^2$  : -0.004553387838802436

### Test statistics for global model

Mean Poisson Deviance : 0.3095656560718433

Mean Squared Error : 0.05601988763248561

$R^2$  : 0.010184439623687869

### Test statistics for agent\_no 0

Mean Poisson Deviance : 0.32398917470492766

Mean Squared Error : 0.05684807527085227

R^2 : -0.0044488102097384186

Test statistics for agent\_no 1

Mean Poisson Deviance : 0.32365479185147206

Mean Squared Error : 0.056867329194047536

R^2 : -0.004789007835660053

Test statistics for agent\_no 2

Mean Poisson Deviance : 0.32376905644838955

Mean Squared Error : 0.056854401287183776

R^2 : -0.0045605846110226

Test statistics for agent\_no 3

Mean Poisson Deviance : 0.3239493116788586

Mean Squared Error : 0.05685227691825754

R^2 : -0.004523049130177537

Test statistics for agent\_no 4

Mean Poisson Deviance : 0.3236145820743307

Mean Squared Error : 0.05685574421050686

R^2 : -0.00458431272719273

