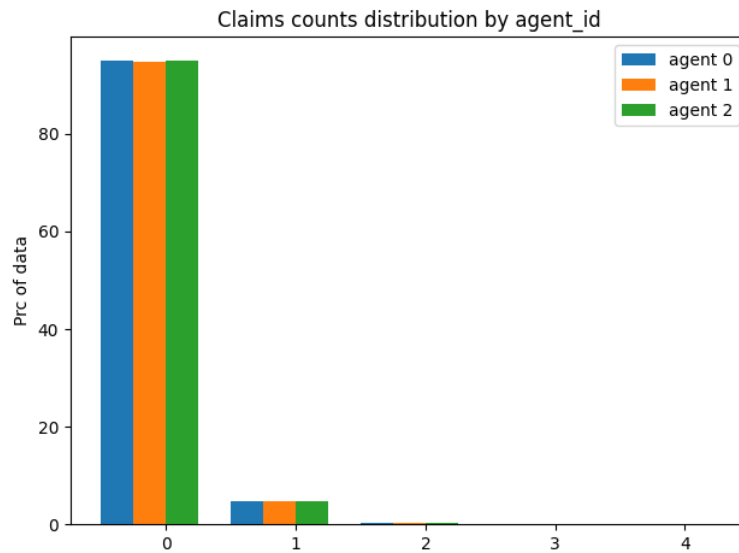
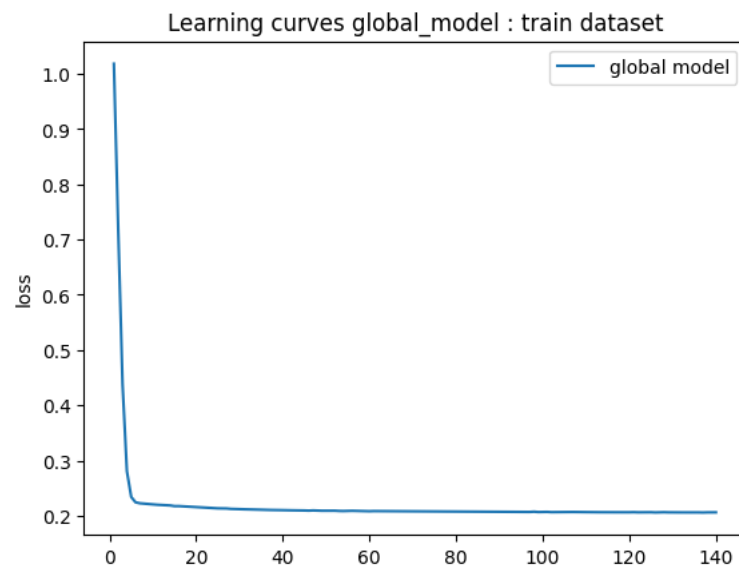


Run Results: num\_agents: 5; num\_rounds: 7; epochs: 20; epochs local and global: 140

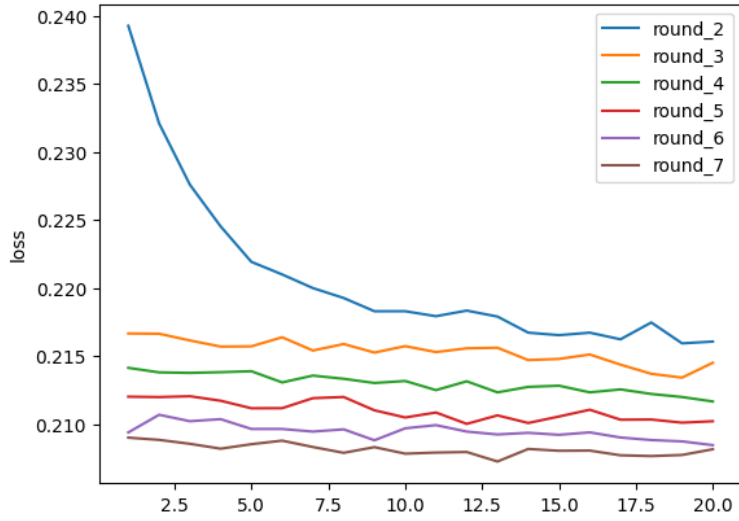
Input Data: Distribution of numbers of observed claims by FL participating parties.



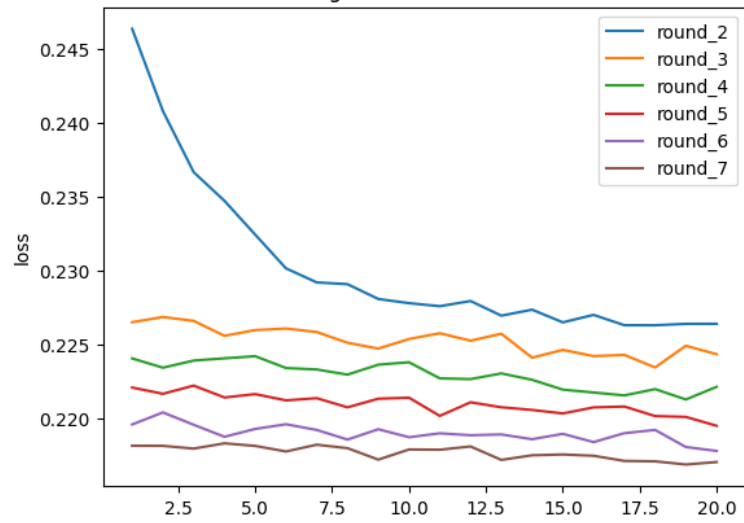
Model Training: Learning curves; Train dataset



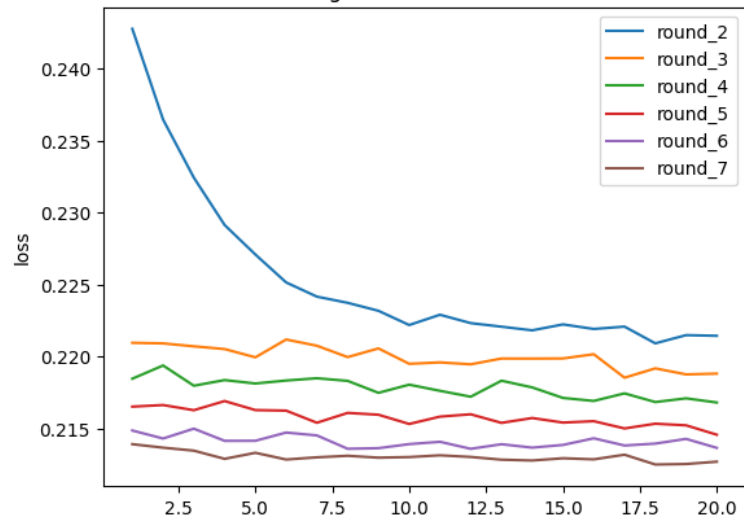
Learning curves 0 : train dataset



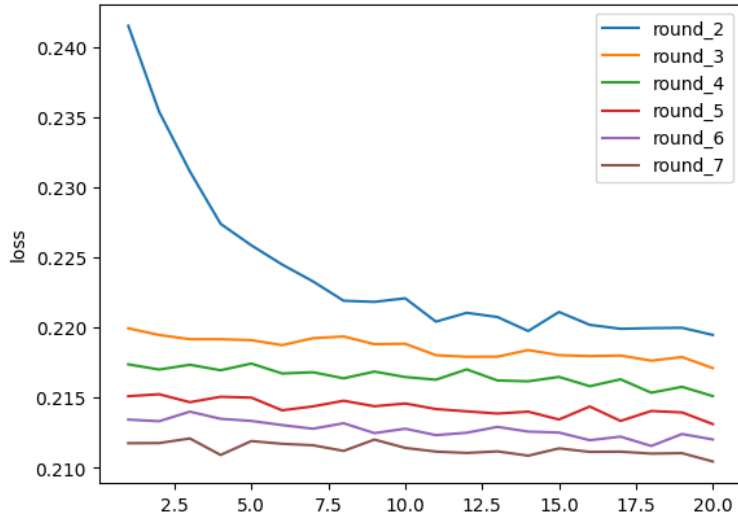
Learning curves 1 : train dataset



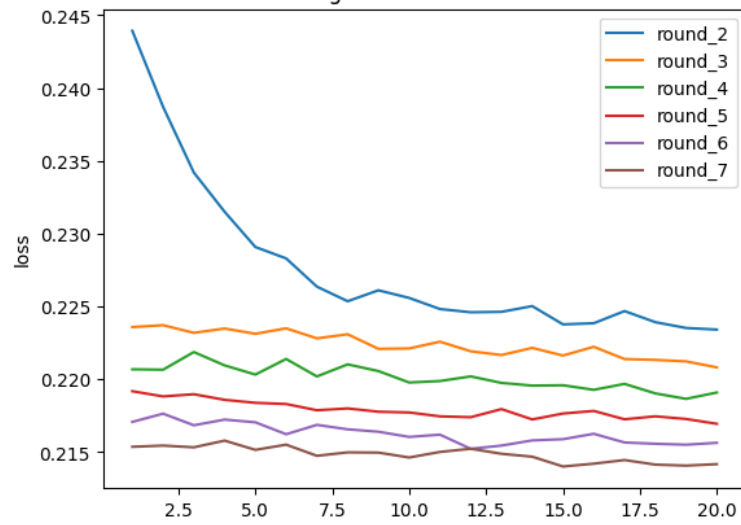
Learning curves 2 : train dataset



Learning curves 3 : train dataset

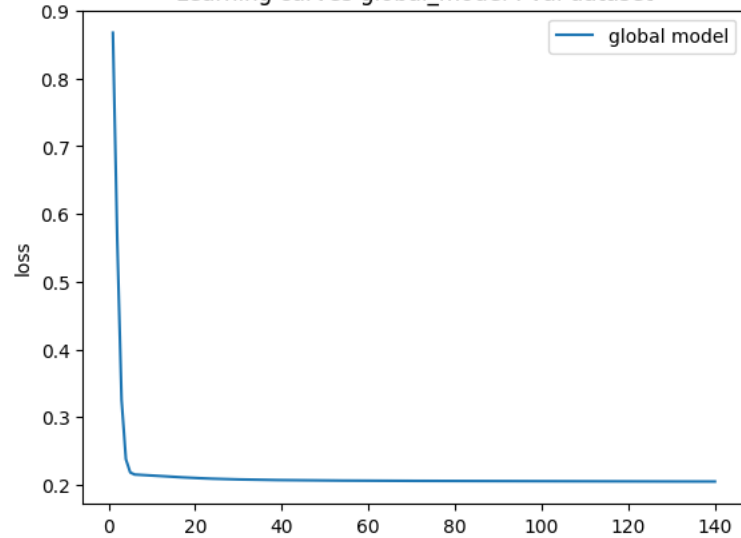


Learning curves 4 : train dataset

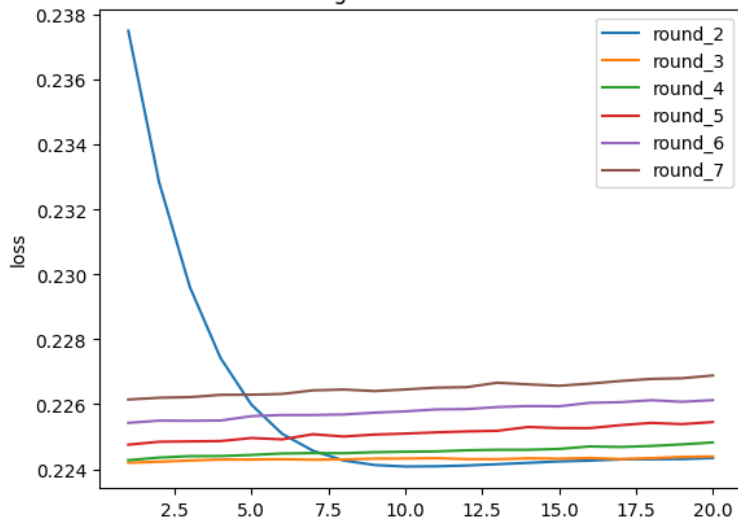


## Model Training: Learning curves; Validation dataset

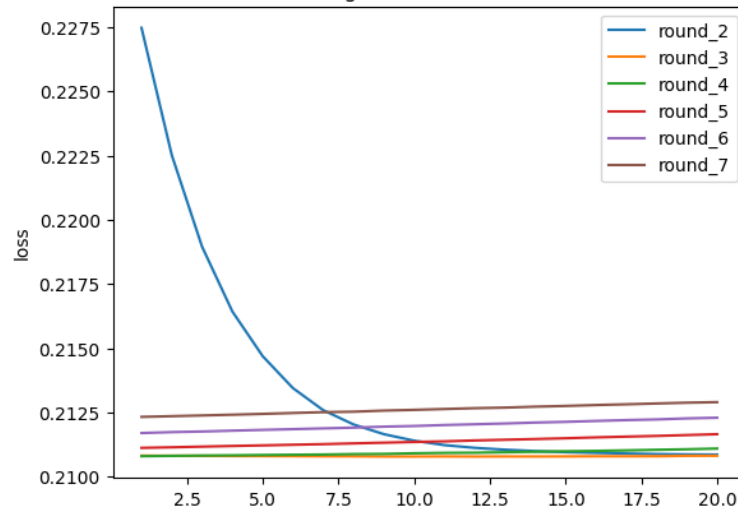
Learning curves global\_model : val dataset



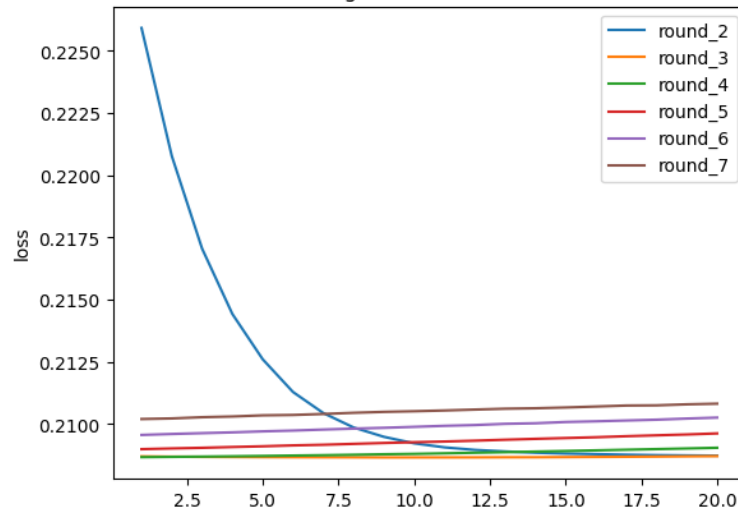
Learning curves 0 : val dataset

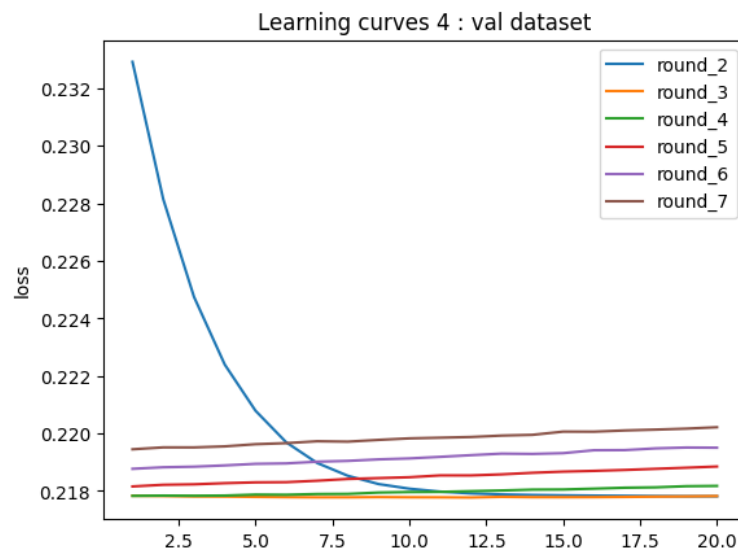
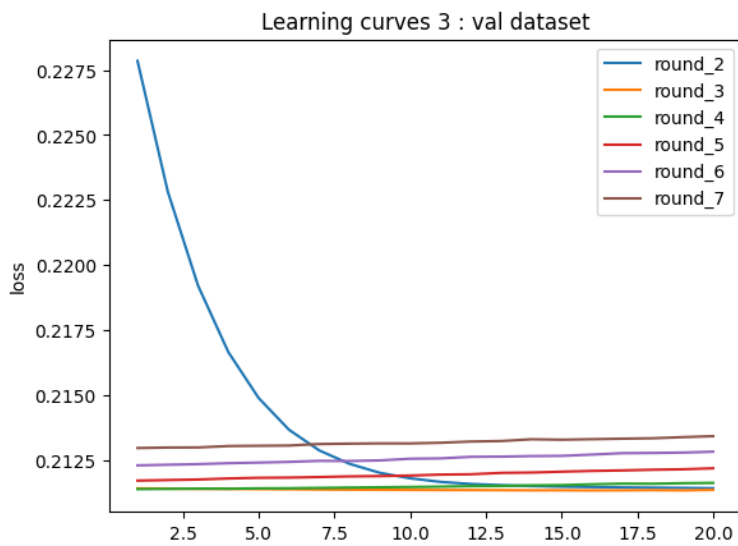


Learning curves 1 : val dataset



Learning curves 2 : val dataset





#### Test statistics for FL model

Mean Poisson Deviance : 0.3129136771430471

Mean Squared Error : 0.05626655207370765

R<sup>2</sup> : 0.005826124881701089

#### Test statistics for global model

Mean Poisson Deviance : 0.30676244256497265

Mean Squared Error : 0.055811282056795454

R<sup>2</sup> : 0.013870292157951769

#### Test statistics for agent\_no 0

Mean Poisson Deviance : 0.31327389751208967

Mean Squared Error : 0.056283601530287206

R^2 : 0.005524877982936882

Test statistics for agent\_no 1

Mean Poisson Deviance : 0.31273069873752535

Mean Squared Error : 0.05625531991999221

R^2 : 0.006024585838942165

Test statistics for agent\_no 2

Mean Poisson Deviance : 0.31340674762770476

Mean Squared Error : 0.05629661398955951

R^2 : 0.005294960801542459

Test statistics for agent\_no 3

Mean Poisson Deviance : 0.3132878288110768

Mean Squared Error : 0.05628339331776042

R^2 : 0.005528556890688874

Test statistics for agent\_no 4

Mean Poisson Deviance : 0.31316554596536383

Mean Squared Error : 0.05628087539268014

R^2 : 0.005573046116384539

