Privacy-Preserving
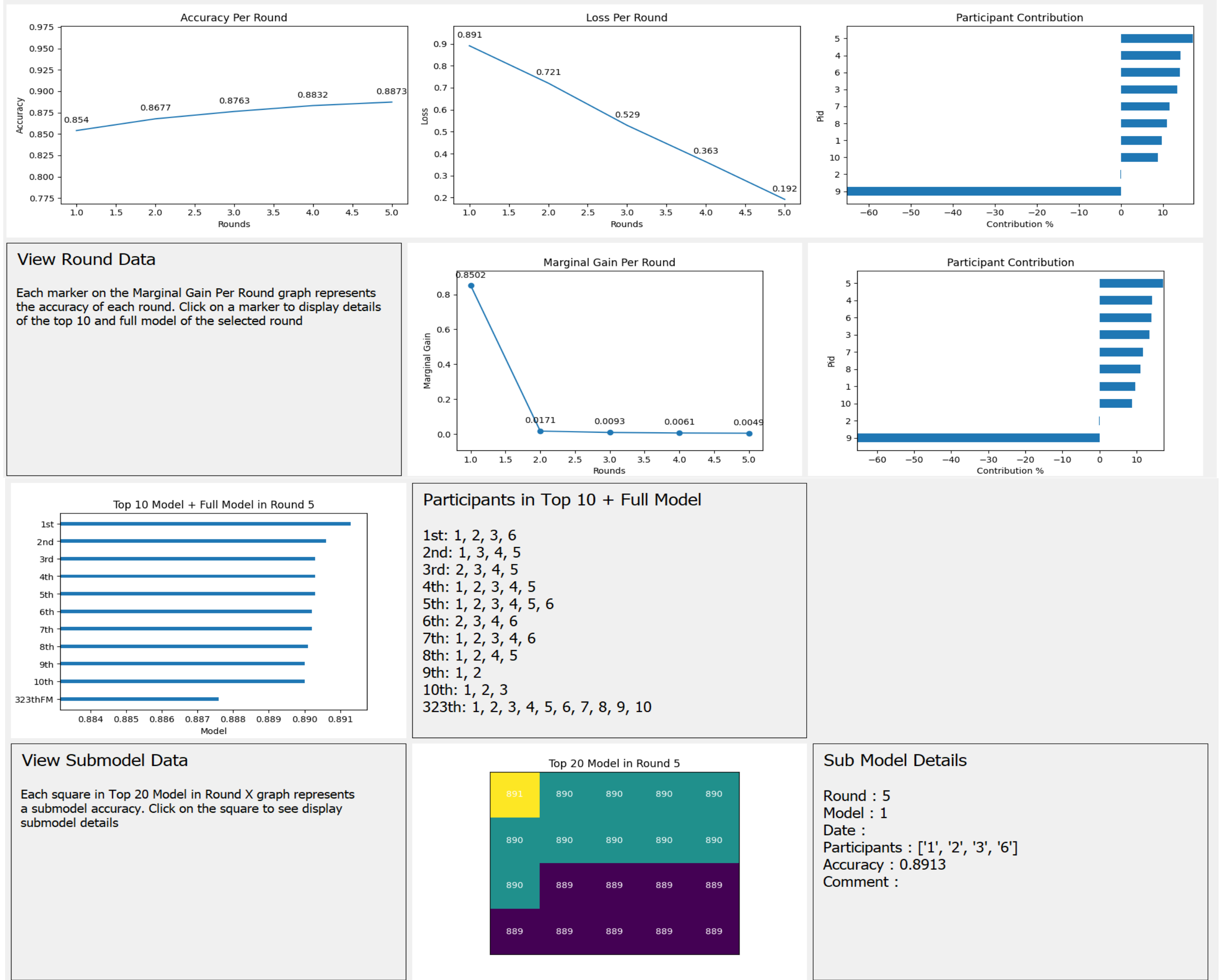## Data Valuation Visualization System

Student: Yap Rong Yu   Supervisor: A/P Han Yu

Federated Model View:

Model: 5

Accuracy Per Round

0.854   0.8677   0.8763   0.8832   0.8873

Loss Per Round

0.891   0.721   0.529   0.363   0.192

Participant Contribution

(Pid: 5, 4, 6, 3, 7, 8, 1, 10, 2, 9; Contribution %)

View Round Data

Each marker on the Marginal Gain Per Round graph represents the accuracy of each round. Click on a marker to display details of the top 10 and full model of the selected round

Marginal Gain Per Round

0.8502   0.0171   0.0093   0.0061   0.0049

Participant Contribution

(Pid: 5, 4, 6, 3, 7, 8, 1, 10, 2, 9; Contribution %)

Top 10 Model + Full Model in Round 5

1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 323thFM

(Model: 0.884 – 0.891)

Participants in Top 10 + Full Model

1st: 1, 2, 3, 6
2nd: 1, 3, 4, 5
3rd: 2, 3, 4, 5
4th: 1, 2, 3, 4, 5
5th: 1, 2, 3, 4, 5, 6
6th: 2, 3, 4, 6
7th: 1, 2, 3, 4, 6
8th: 1, 2, 4, 5
9th: 1, 2
10th: 1, 2, 3
323th: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

View Submodel Data

Each square in Top 20 Model in Round X graph represents a submodel accuracy. Click on the square to see display submodel details

Top 20 Model in Round 5

891	890	890	890	890
890	890	890	890	890
890	889	889	889	889
889	889	889	889	889

Sub Model Details

Round : 5
Model : 1
Date :
Participants : ['1', '2', '3', '6']
Accuracy : 0.8913
Comment :

Project Objectives:

The purpose of the project is to explore ways to develop a visualisation system for federated learning. The visualisation system is simple to use yet robust enough to display the relevant data to the stakeholders. Stakeholders without technical knowledge in federated learning should be able to use this system without issues.