**STEPS TO REPRODUCE SUBMISSION**

1. Download data - Plato\_Radiant\_Data\_Download

2. Preprocess data to numpy arrays - Plato\_Radiant\_Data\_Preprocessing

3. Train LGBM model - Plato\_Lgbm

· - For faster training, upload the Plato\_Lgbm notebook to colab

· - Upload the radiant pixels dataset and the sample submission file

· - Enable TPU which has 40 cores

· - Run all to get the LGBM\_SUB file

4. Train Neural Network - Plato\_Neural\_Net

· - Upload Plato\_Neural\_Net notebook to colab

· -Upload the Plato\_Neural\_Net notebook\_requirements.txt file

· - Upload the radiant pixels dataset and sample submission file

· - Enable GPU runtime

· - Run all to get the pytorch\_tabular file

5. Blend predictions from the two models - Plato\_Blend\_Predictions

· - Upload the Plato\_Blend\_Predictions notebook to colab

· - Upload the LGBM\_SUB file and the pytorch\_tabular file

· - Run all to get the final submission file