* Basic info (Panyu)
  + Referring to DiversityOne, College experience dataset
* Validation - EDA (Panyu)
  + Data quality checking
    - Label checking (15 times per days)
      * Adherence rate
    - Missing data ratio per sensor
    - Data frequency
    - Duration of study
      * Dropout rate
    - Fitbit
      * Check if they are always wearing the device
  + Data explanation
    - Visualization (referring to DiversityOne)
      * Label distribution
      * # participants throughout the study
      * Adherence rate
  + Model
    - Basic model (refer to the TableShift paper)
      * Baseline model
        + XGBoost, LightGBM, CatBoost
      * Tabular neural network models
        + SAINT, TabTransformer, NODE, FT-Transformer, tabular ResNet
    - Target
      * Valence, arousal, stress, attention
* Comparing different affective labels (Azizbek)
  + Model
    - XGBoost
  + Evaluation
    - LOSO, Stratified group 5 fold
  + D-3
    - Happy, relaxed, cheerful, content, sad, anxious, depressed, angry
    - Valence, arousal, stress, attention
* Pretraining (Azizbek, Minseo)
  + Target
    - Valence, arousal, stress, attention
  + Model
    - XGBoost
  + Evaluation
    - LOSO, Stratified group 5 fold
  + This idea stems from College Experience Study (IMWUT) paper
    - Model pretraining and transfer learning (listed as one of the open research questions)
  + Using models already implemented in CrossShift
    - LOSO, stratified group 5 fold
  + Pretrain on two datasets and fine-tune & test on target dataset
    - Pretrain on combined D-1, 3 + retrain on target dataset training set and test on tests set
      * D-1, 3 -> D-2
      * D-1, 2 -> D-3
      * D-2, 3 -> D-1
    - Domain adaptation (cross dataset)
      * Transboost
  + Combine the datasets
    - Combine the D-1, 3 + D-2 training and test on D-2 test
  + Compare with without pretraining/combing the dataset
* Trying possible generalization models for tabular data to handle the cross-user shifts (Tomiris, Minseo)
  + Target
    - Valence, arousal, stress, attention
  + Evaluation
    - LOSO, stratified group 5 fold
  + Packages to replicate
    - [GLOBEM packages](https://github.com/UW-EXP/GLOBEM)
    - [TabBenchmark](https://github.com/yihengsun/TransBoost) 
      * Domain Robustness Models
      * Label Shift Robustness Models
      * Domain Generalization Models
    - Need to check the overlapping models