Code and dataset description

A comprehensive evaluation of drug responsiveness prediction models, using cell viability inhibitory concentrations (IC50 values)

Code repository

This repository contains python code for the construction of drug response prediction models in each dataset
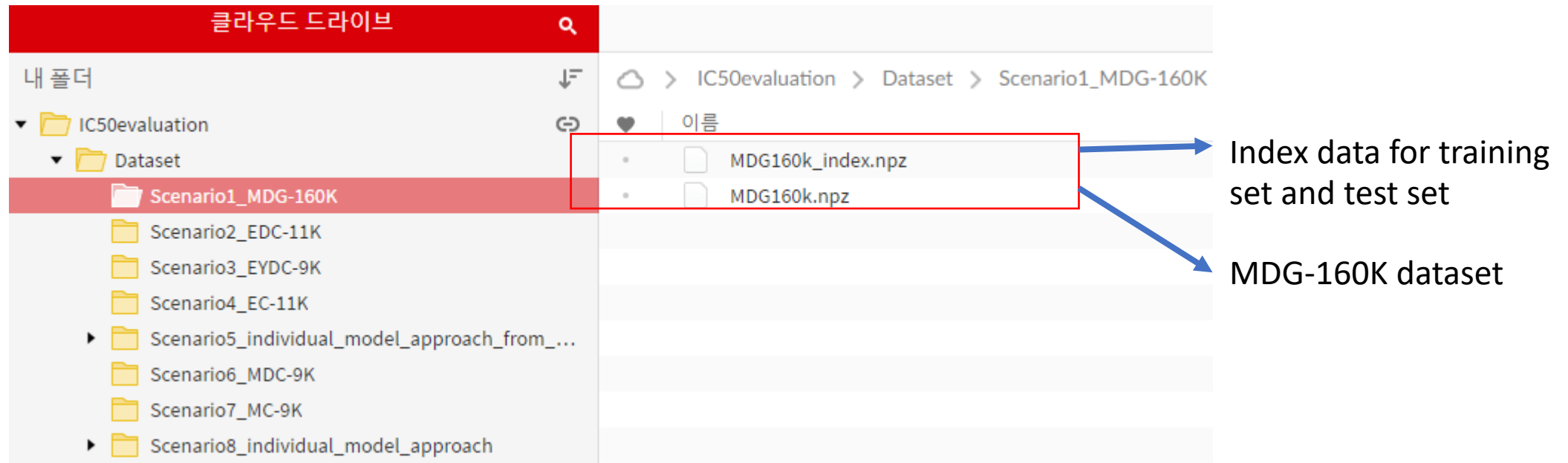
Code repository (e.g. scenario 1: MDG-160K)

labnams IC50evaluation   785edfd on 12 Mar   🕐 History

..

📁 .ipynb_checkpoints	IC50evaluation	6 months ago
📄 MDG160K_CNN_CDRScan_master.ipynb	IC50evaluation	7 months ago
📄 MDG160K_ResNet.ipynb	IC50evaluation	7 months ago
📄 MDG160K_XGBoost.ipynb	IC50evaluation	6 months ago
📄 MDG160K_linearSVR.ipynb	IC50evaluation	7 months ago
📄 MDG160K_random_forest.ipynb	IC50evaluation	6 months ago

This repository contains python code for the construction of drug response prediction models in each dataset

https://github.com/labnams/IC50evaluation

Code repository (e.g. scenario 2: EDC-11K)

labnams IC50evaluation   785edfd on 12 Mar   🕐 **History**

..

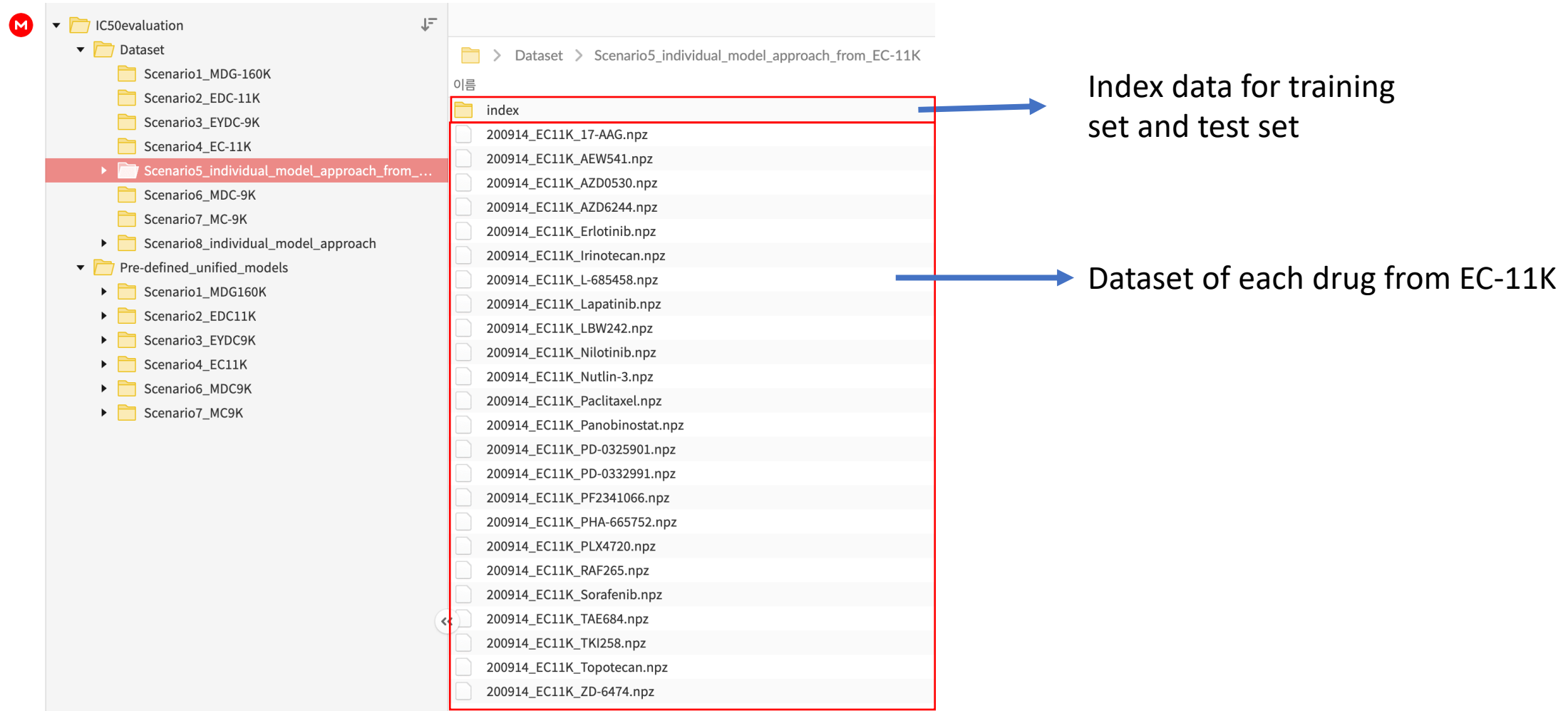|		
📁 .ipynb_checkpoints	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_CNN.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_Lasso.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_RF.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_ResNet.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_Ridge.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_SVR.ipynb	IC50evaluation	6 months ago
📄 191205_EDC11K_znorm_minmax_XGB.ipynb	IC50evaluation	6 months ago

https://github.com/labnams/IC50evaluation

Code repository (e.g. scenario 5: individual model approach)

Dataset repository – dataset for unified model

Index data for training set and test set

MDG-160K dataset

Dataset repository – dataset for individual model approach

Index data for training set and test set

Dataset of each drug from EC-11K

https://mega.nz/folder/CeYGDKyS#uqkmWJ4E2XSGJp_C2VO2gg/folder/nWZVGYjZ

Dataset repository
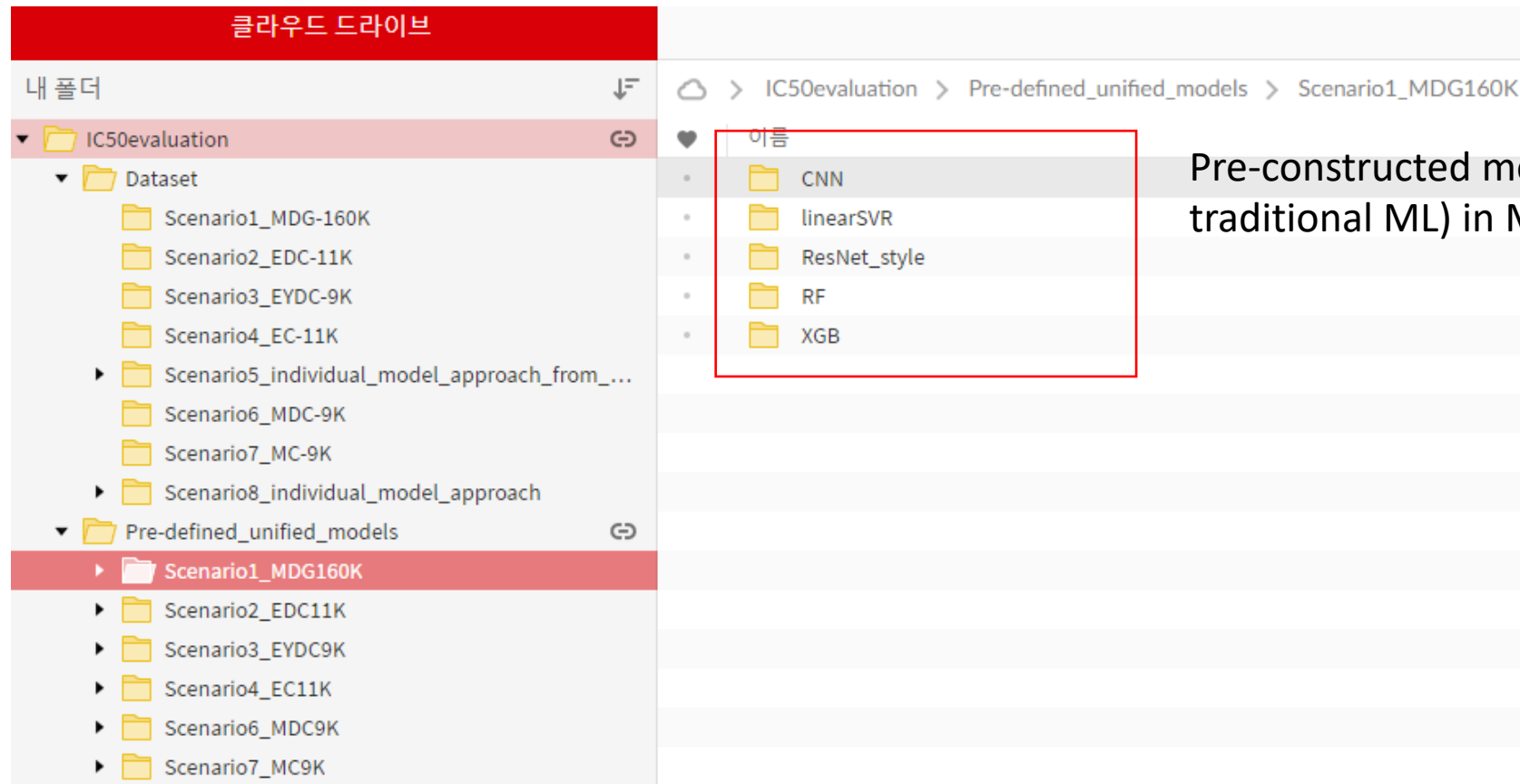
Pre-constructed models (AI and traditional ML) in MDG-160K

https://mega.nz/folder/CeYGDKyS#uqkmWJ4E2XSGJp_C2VO2gg/folder/nWZVGYjZ