1. Package: BuildModel
   1. Module: train\_model
      1. Class: ModelFinder
         1. Method: train\_test\_split
            1. Argument: path of dataset source\_path
            2. Return: train, test
         2. Method: x\_y\_split
            1. Argument: data
            2. Return: x,y
         3. Method: get\_best\_params\_for\_random\_forest
            1. Argument: data
            2. Return: x,y
2. Package: Archive
   1. Module: archive
      1. Class: move\_file
         1. Method: to\_archive
            1. Argument: source\_path
            2. Return: None
3. Package: DataBaseAction
   1. Module: database
      1. Class: DB\_define
         1. Method: create\_coll
            1. Argument: collection\_name
            2. Return:
         2. Method: insert\_into\_db
            1. Argument: None
            2. Return: None
         3. Method: extract\_from\_db
            1. Argument: collection\_name
            2. Return: None
4. Package: DataPreprocessing
   1. Module: predict
      1. Class: predict\_preprocess : Argument(path)
         1. Method: fill\_na\_value
            1. Argument: None
            2. Return: None
         2. Method: create\_cluster
            1. Argument: None
            2. Return: None
   2. Module: train
      1. Class: train\_preprocess: Argument(path)
         1. Method: fill\_na\_value
            1. Argument: None
            2. Return: None
         2. Method: find\_best\_clusters
            1. Argument: None
            2. Return: None
         3. Method: KMeanCluster\_model
            1. Argument: None
            2. Return: None
         4. Method: create\_cluster
            1. Argument: None
            2. Return: None
5. Package: DataValidation
   1. Module: PredictionDataValidation
      1. Class: predict\_data\_validation
         1. Method: file\_name\_validate
            1. Argument: folder\_path
            2. Return: None
         2. Method: file\_column\_validation
            1. Argument: None
            2. Return: None
         3. Method: entire\_column\_missing
            1. Argument: None
            2. Return: None
   2. Module: TrainDataValidation
      * 1. Method: file\_name\_validate
           1. Argument: train\_folder\_path
           2. Return: None
        2. Method: file\_column\_validation
           1. Argument: None
           2. Return: None
        3. Method: entire\_column\_missing
           1. Argument: None
           2. Return: None
6. Package: Logger
   1. Module: logger
      1. Class: logs
         1. Method: write\_log
            1. Argument: process\_name, log\_msg, log\_level
            2. Return: None
7. Package: Model\_save
   1. Module: ModelSave.py
      1. Class: model\_load
         1. Method: to\_save
            1. Argument: model, filename
            2. Return: None
         2. Method: to\_load
            1. Argument: filename
            2. Return: None

Training Validation Insertion

Training Model