

Bristol-Myers Squibb - Molecular Translation - Exploratory Data Analysis

Quick Exploratory Data Analysis for <u>Bristol-Myers Squibb – Molecular Translation</u> challenge

In this competition, you are provided with images of chemicals, with the objective of predicting the corresponding International Chemical Identifier (InChI) text string of the image. The images provided (both in the training data as well as the test data) may be rotated to different angles, be at various resolutions, and have different



In []:

train_labels.csv In []: - ground truth InChi labels for the training images

train/- In []: In []: In []: training images, arranged in a 3-level folder structure image_id

In []: In []: In []: In []: In []:

the test images, arranged in the same folder structure

as train/

evaluated distance on the mean between <u>Levenshtein</u> two strings <u>distance</u> between the length |a| InChi strings and **|b|** you submit respectively) is given by ground truth lev(a,b) InChi values. where

Submissions

if | *b* if | *a* lev(tail(a), tail(b)) if a[0] = b[0] $\int \text{lev}(\text{tail}(a), b)$ $1 + \min \left\{ \text{ lev}(a, \text{tail}(b)) \text{ otherwise.} \right.$ lev(tail(a), tail(b))

tail of some string x is a string of all but the first x, and x[n] is the **n**th

where the

character of character of the string \mathbf{x} , starting with character 0. Note that the first

corresponds to deletion

the second to insertion

the minimum (from a to b), and the third

replacement.