



**draft\_1**

Python notebook using data from [multiple data sources](#) · 18 views · 2h ago · [Edit tags](#)



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Version 3 of 3

Notebook

Mechanisms Of Action (MoA) Prediction

Using GPU If Available

Reading The CSV Files

Dataset Classes, Training And Testing...

Preparing The Dataset

Dataset Preparation Complete

Declaring The HyperParameters

Declaring The Training Input (2)

Output

Execution Info

Log

Comments (0)

## Mechanisms of Action (MoA) Prediction

Predicting multiple targets of the Mechanism of Action (MoA) response(s) of different samples (sig\_id), given various inputs such as gene expression data and cell viability data.

Some of the important terms used in the headings of the tables are presented here:

```
g - : signifies gene expression data
c - : signifies cell expression data
cp_type : indicates samples treated with a compound (cp_vehicle) or with a control perturbation (ctrl_vehicle)
NOTE: (samples with control perturbations don't have MoAs)
cp_time - treatment duration (24,48,72) Hours
cp_dose - Dosage - HIGH or LOW
```

In [1]:

```
# Importing the multi label stratified k-fold
# cross validator
```