

I worked on these steps recently:

1. I looked at the data shape in the file called **'understanding shape of data used in the original article.ipynb'**.

This helped me understand the data's shape, so I could adjust our own real data accordingly.

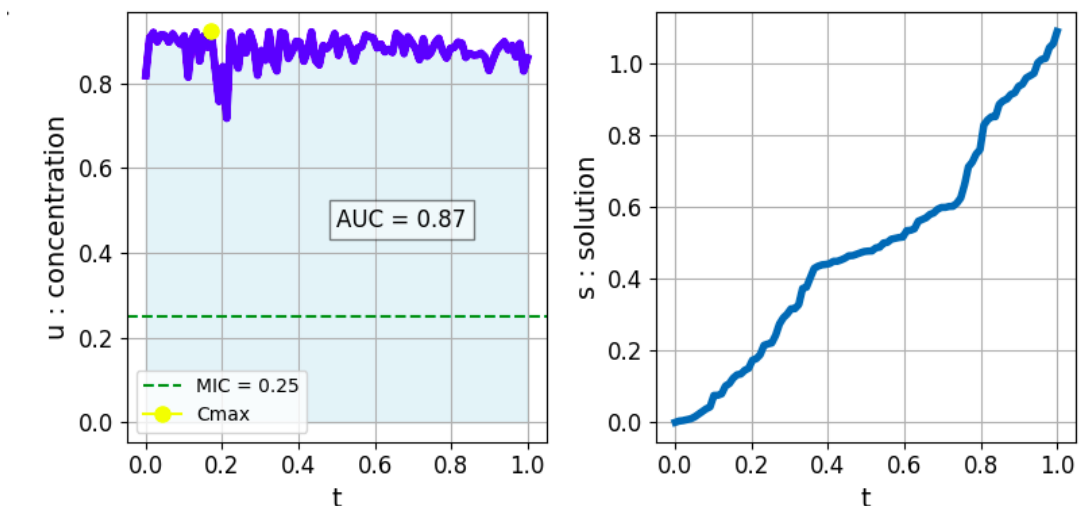
2. I tried to make a dataset using the given equations, but it didn't work well. So, I went looking for a real dataset. I found one at this web address:

```
https://academic.oup.com/nar/article/49/D1/D1358/5957165?searchresult=1#supplementary-data
```

```
https://pk-db.com/data?tab=outputs
```

The file I used was **'outputs.csv'**. I cleaned up the dataset and organized it into a table with two columns: one for the concentration of paracetamol and another for time. **'Cleaning and preprocessing real data.ipynb'**

3. I ran the code on this **'real dataset in the file real data within original code.ipynb'**, and it produced a plot showing something called AUC and MIC.



In conclusion, the plot didn't show the expected pattern of decreasing concentration. I realized this might be because I only used the first 100 values out of 353 in the real dataset of the cleaned one. I think I need to pick 100 different values from the total 353, rather than just the first 100."