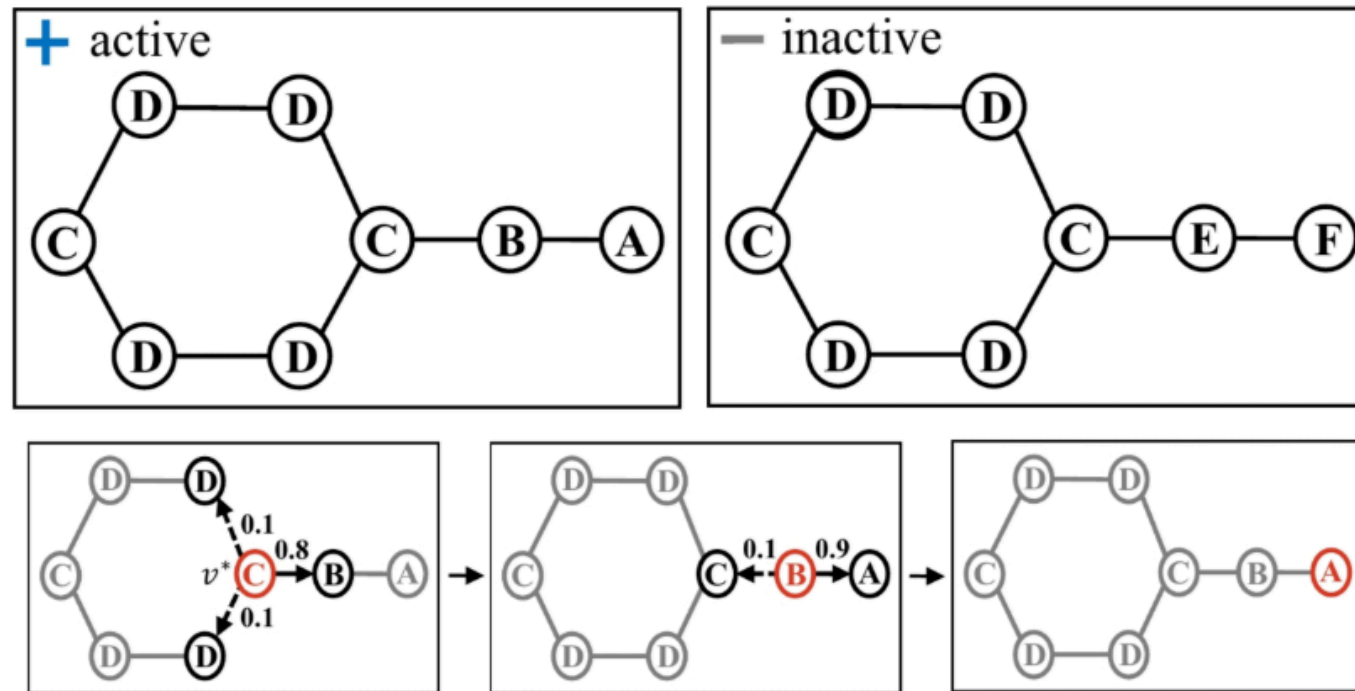


Homework problem description



The particular connection pattern classifies the graph into 3-classes .

The classes belong to three different categories of carcinogenicity.

From the point of view of a graph : for each of the above cases, the location of the main cell inside the graph and its connection to neighboring nodes have unique patterns .

In this exercise we want to classify the graphs based on the geometry of the graphs only.

Ref : <http://ryanrossi.com/pubs/KDD18-graph-attention-model.pdf>
<https://github.com/benedekrozemberczki/GAM/>

The task

To start the problem : look into the introductory notebook

<https://github.com/WeizmannML/course2019/blob/master/Tutorial6/HomeWork5.ipynb>

- 1. Build the training and testing dataset from the above list of json**
- 2. Build two classifiers, one with 3 GN block and another one with 4 GN block**
- 3. Do the training for both the models.**
- 4. Figure out which model learns the dataset better by comparing the losses in two cases as well as prediction accuracy on the test dataset.**