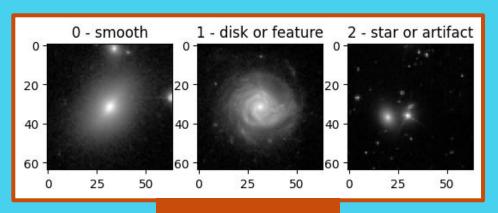
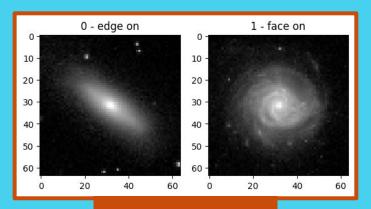




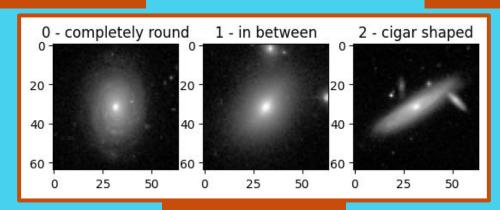
- Multiple ways to classify a galaxy: smoothness, roundness, # of arms etc
- Elimination of "missing" images
- Image transformations center, resize and greyscale
- Databases based of questions T01, T02 and T07
- A galaxy belongs to a class
 ⇔ weighted factor > 0.6
- Counted number of objects in each class => Unbalanced dataset for T01





T01

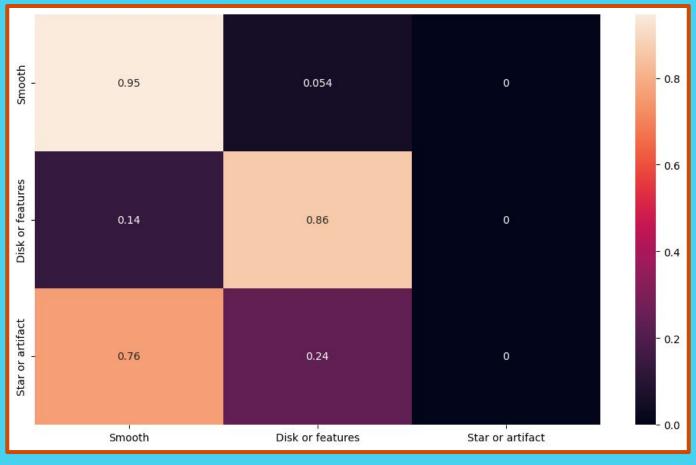
T02



Neural Networks: Challenges and Results

- Data split 60 : 20 : 20
- Random seed problem
- Two convolutional layers and two linear layers
- Model training for 3 questions using SGD and Adam
- Accuracy*: 90-95%
- Unbalanced data problem => rare class is not recognized

^{*}calculated with filtered data



Confusion Matrix for T01 Classification



