



LOS KUNI

14-FEBRERO/2023

# CLASIFICACIÓN DE NEUMONÍA EN PACIENTES DE PEDIATRÍA

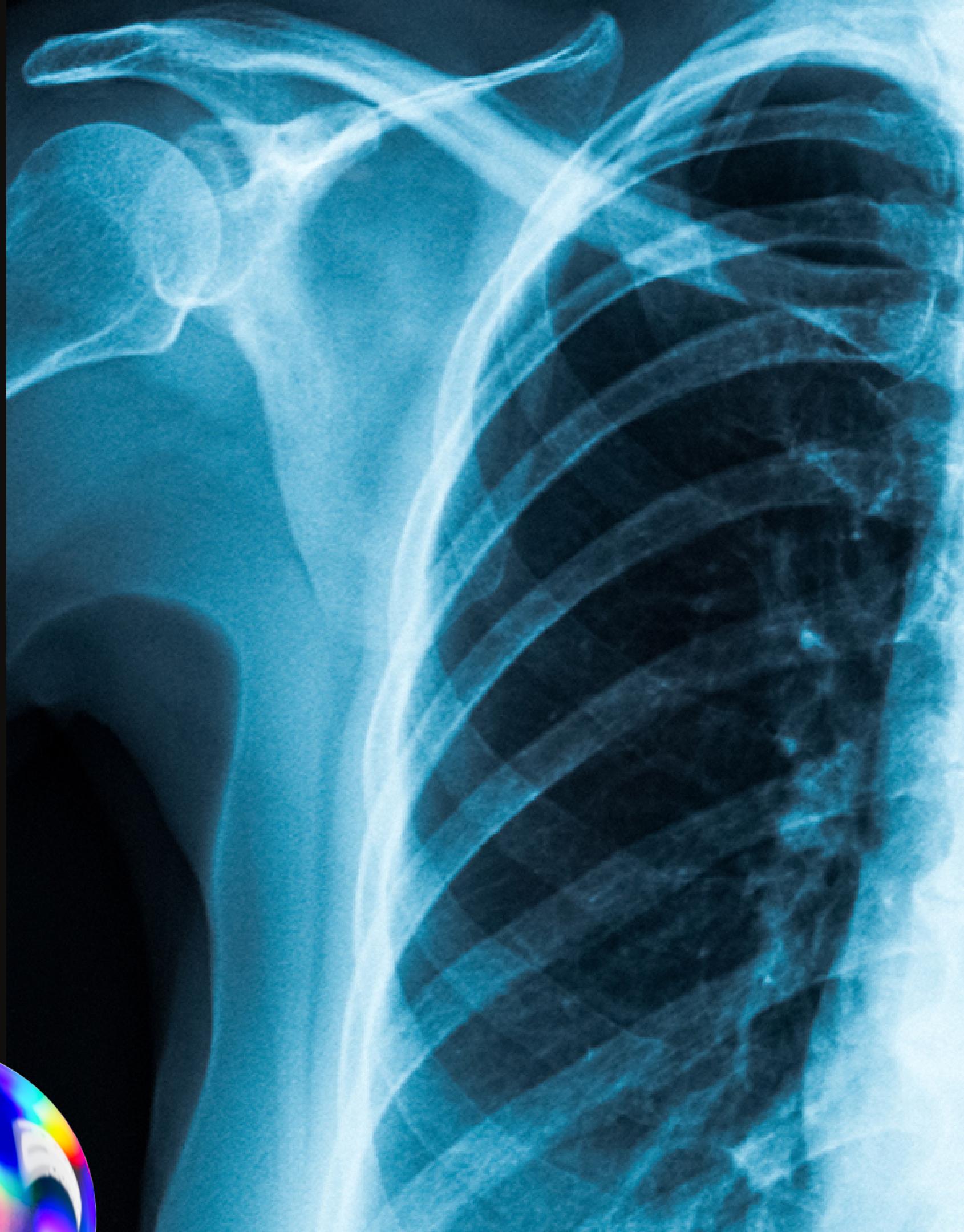
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Santiago Quintero - 2180445  
Brayan Uribe - 2191946



tenga cuidado no se vaya a  
enamorar de nosotros

# LUNG WITH PNEUMONIA AND NORMAL

- Dataset 5,863 X-ray images ( JPEG ) and 2 categories ( Pneumonia / Normal ).
- Chest X-ray images (anterior-posterior) were selected from pediatric patients aged one to five years from Guangzhou.



# LEARNING SUPERVISED

classification from tags

**Pneumonia**

a label is added to images with pneumonia,  
to swap in training

**Train**

5216 images for training

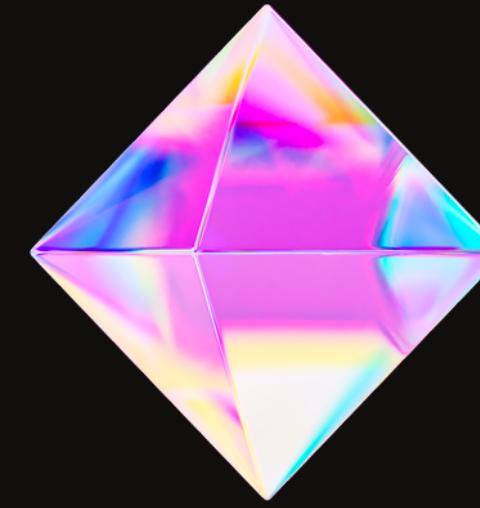
**Normal**

a label is added to the images with normal,  
to swap in training

**Test**

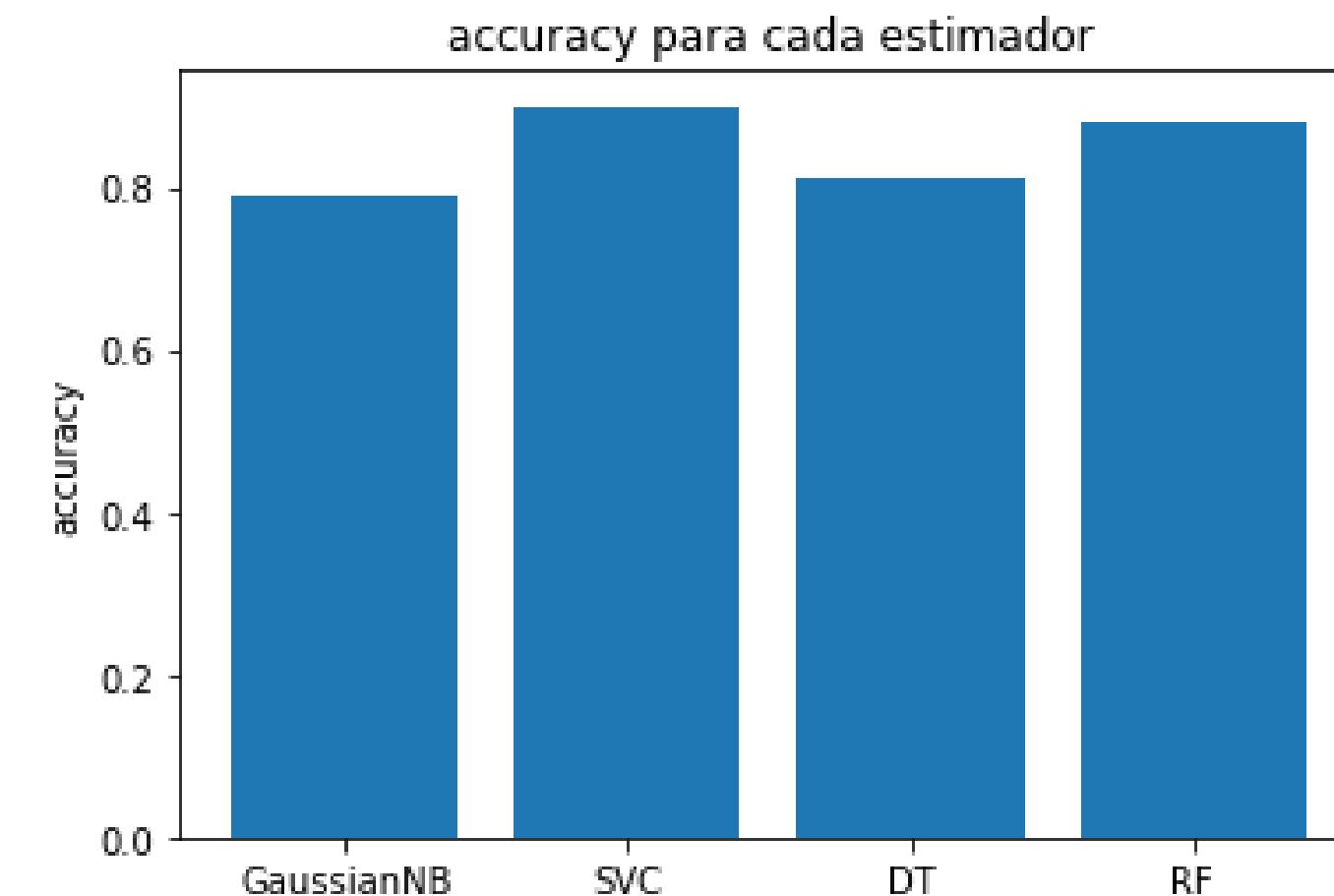
624 images for testing

# ESTIMADORES

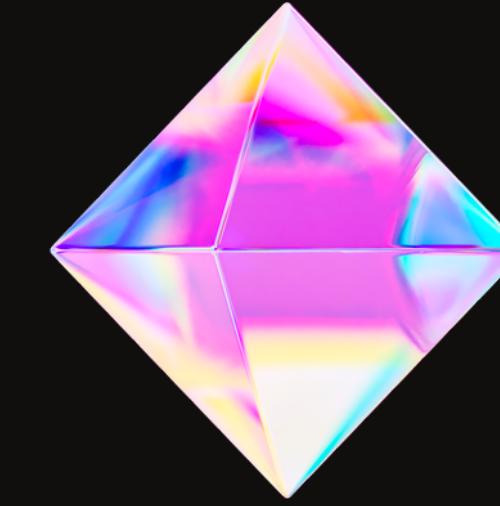


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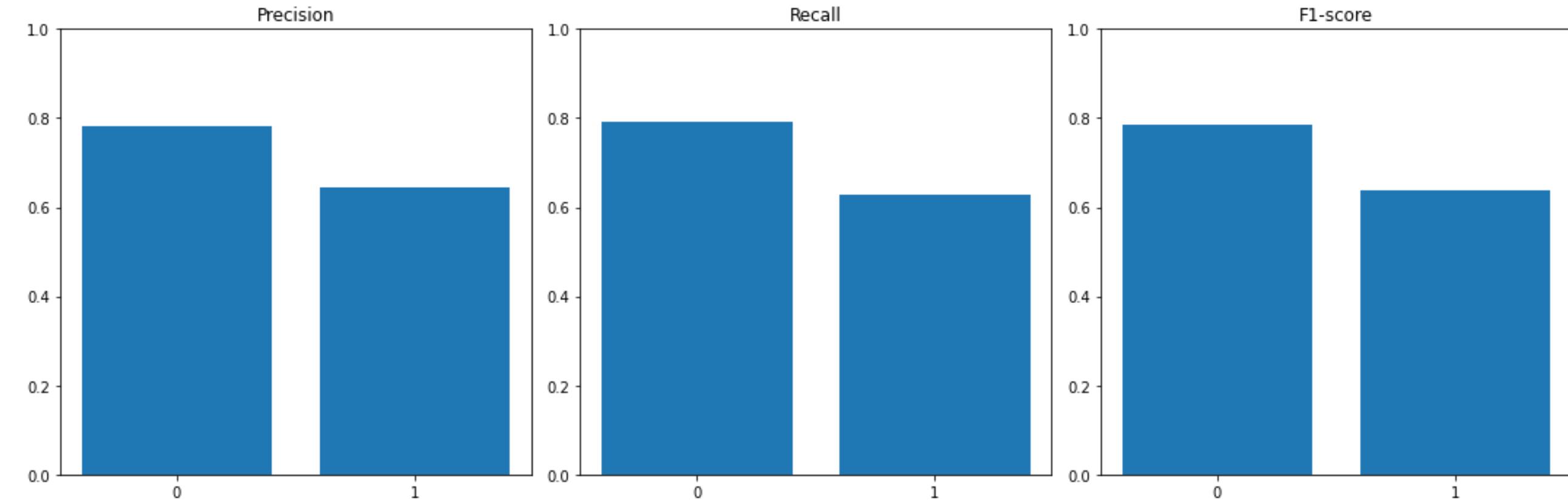
# REPORT



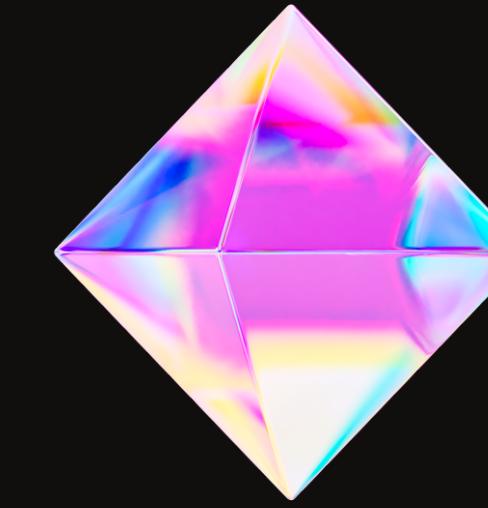
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## Gaussian



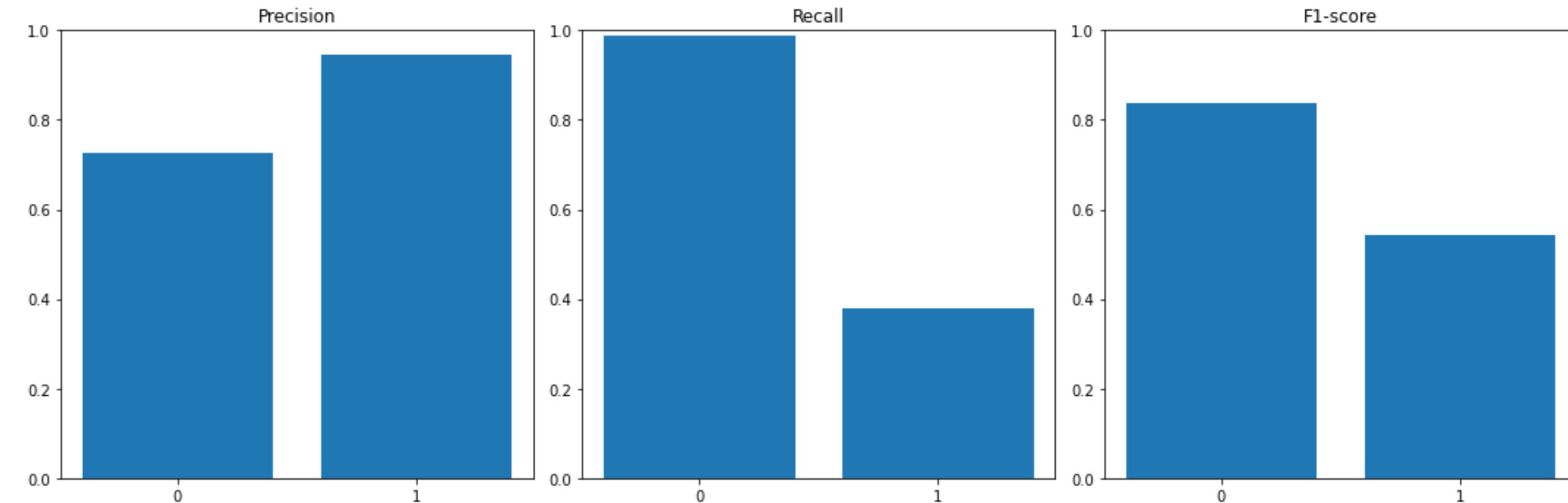
# REPORT



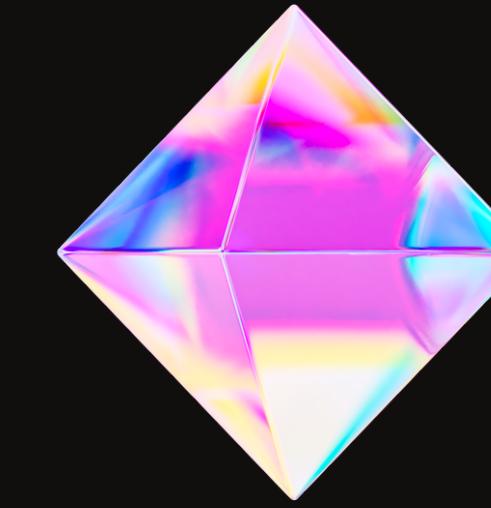
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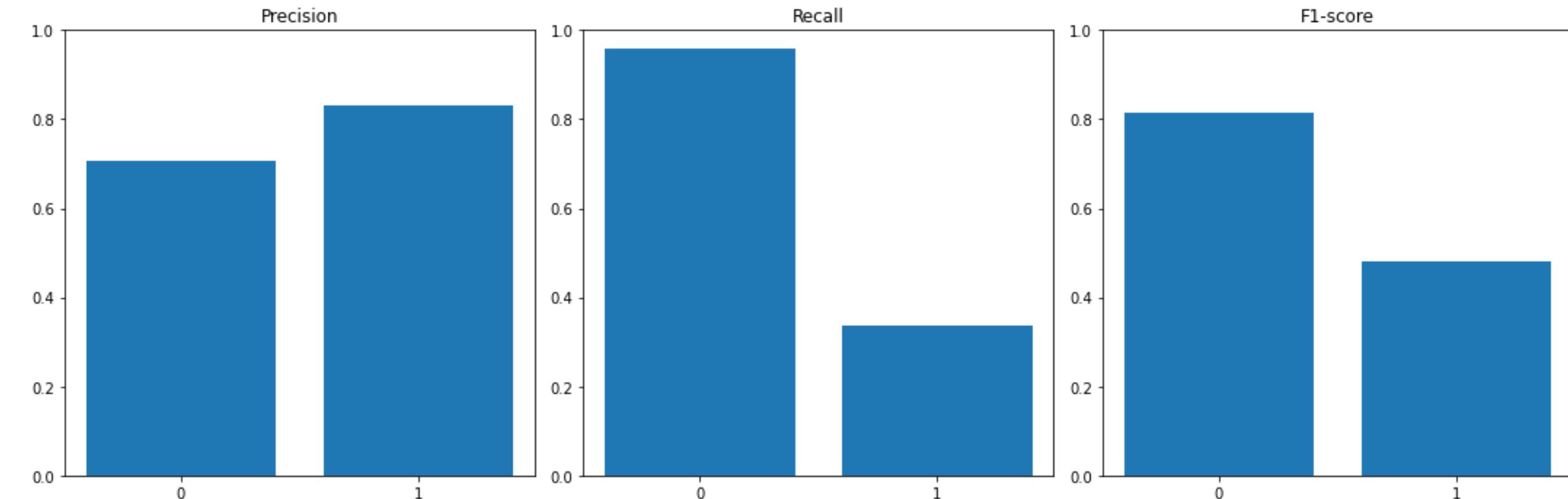
## SVC



# REPORT



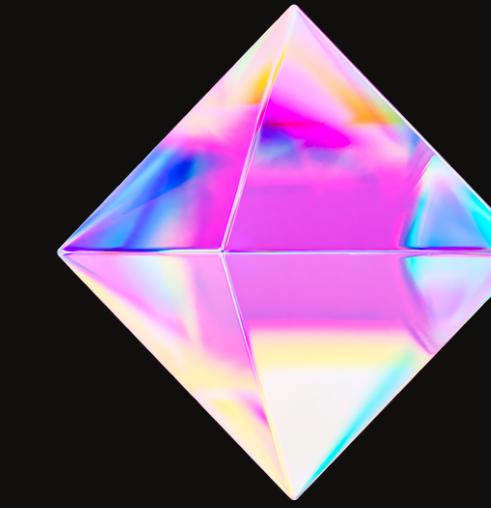
**DT**



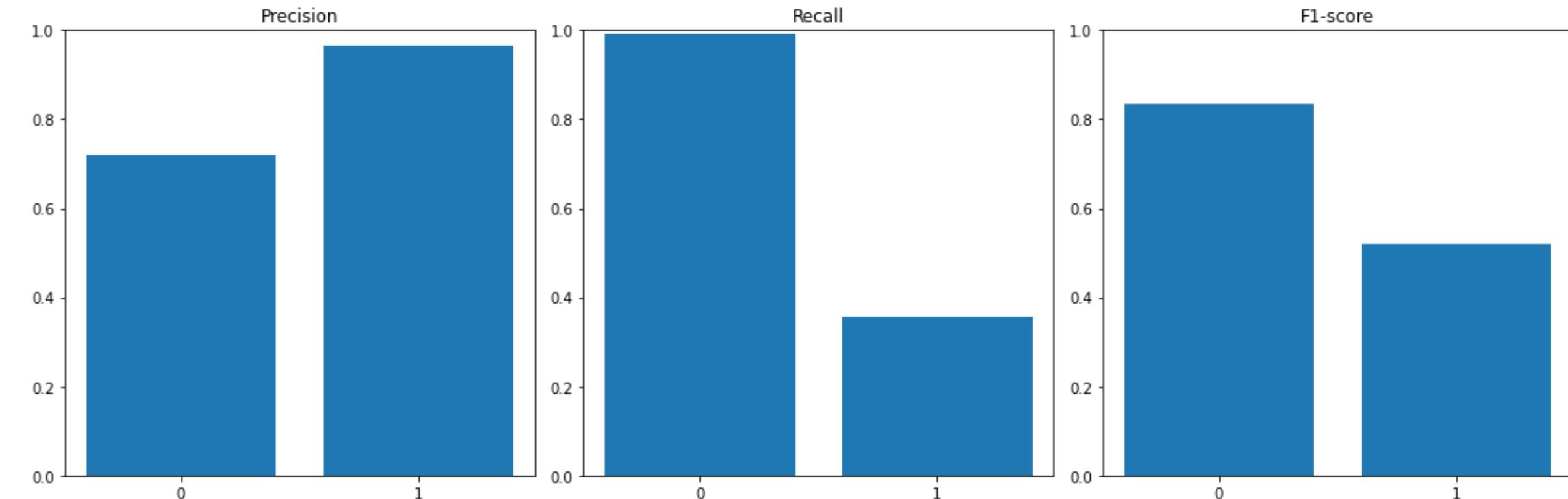
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# REPORT



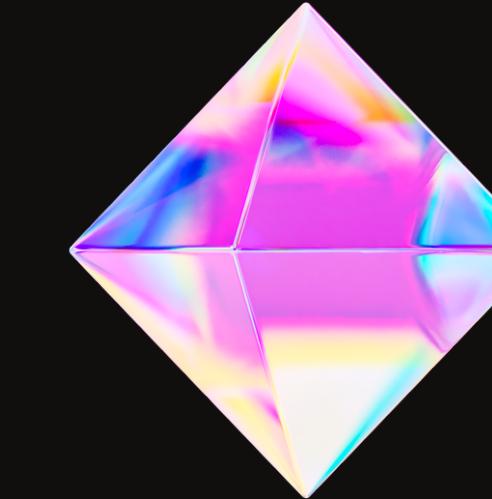
**RF**



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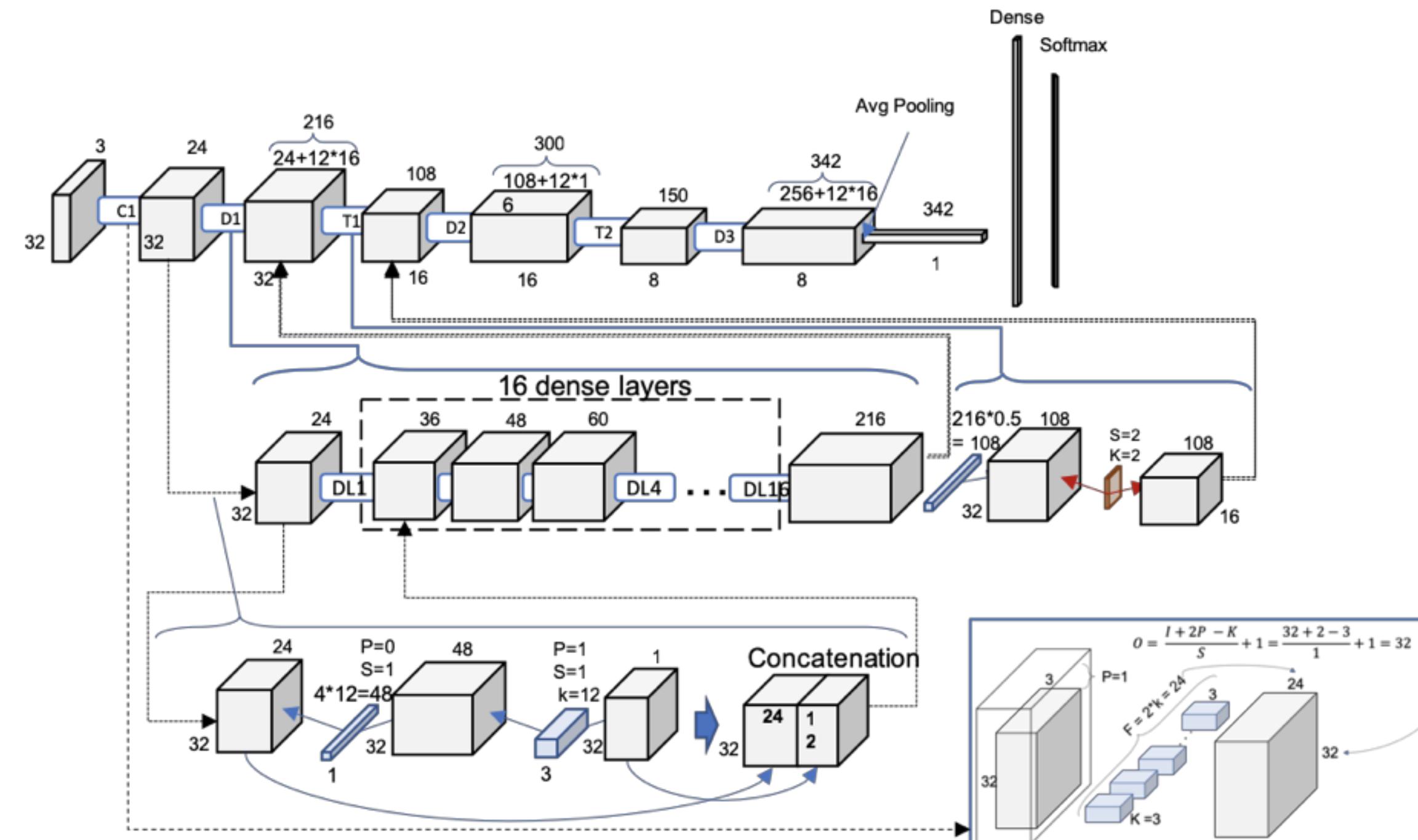
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# DENSE NETWORK



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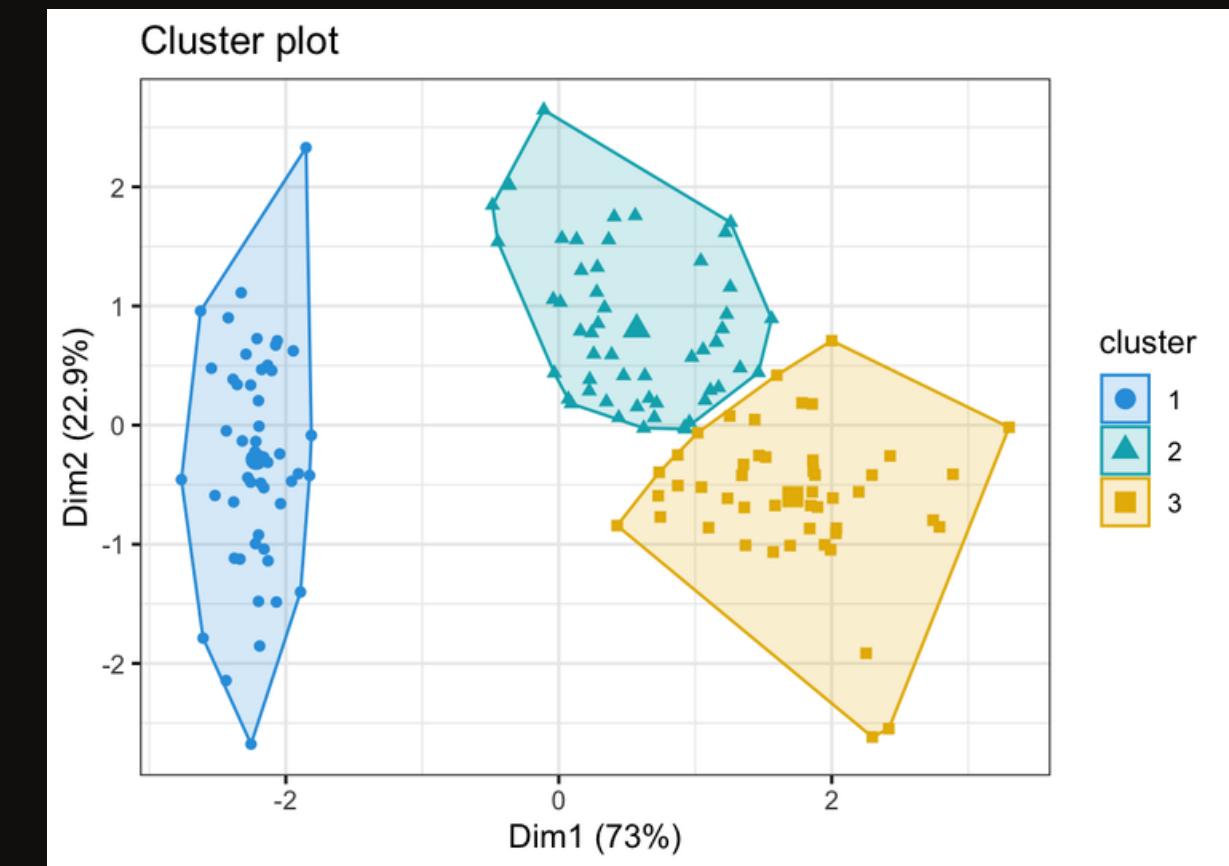
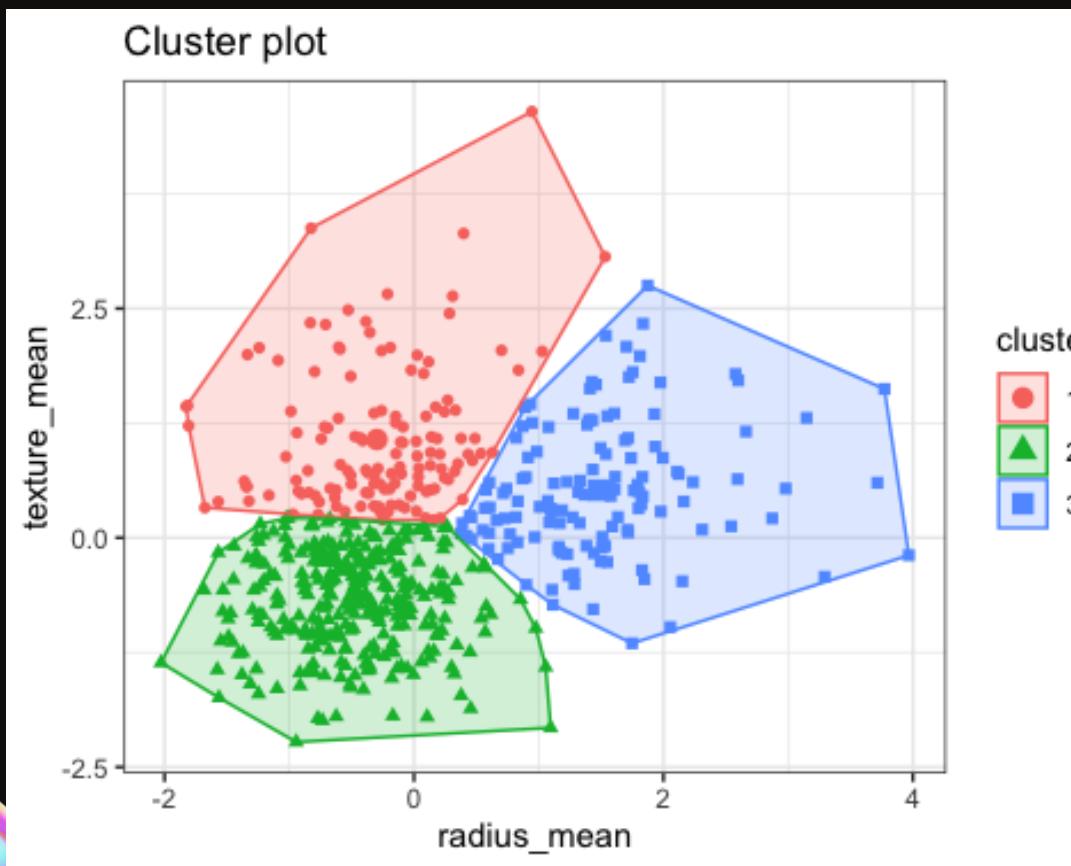


# NON SUPERVISED LEARNING

class grouping

## K-MEANS

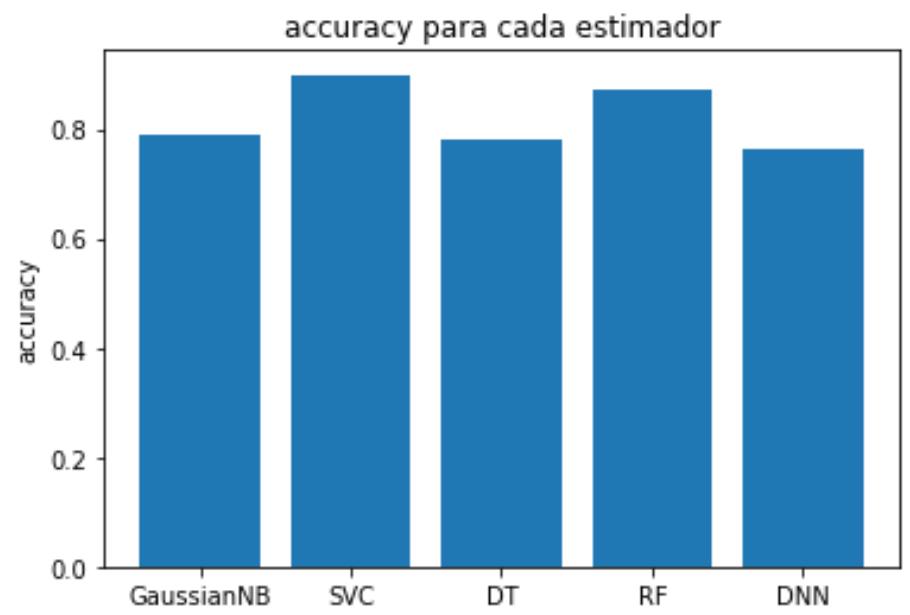
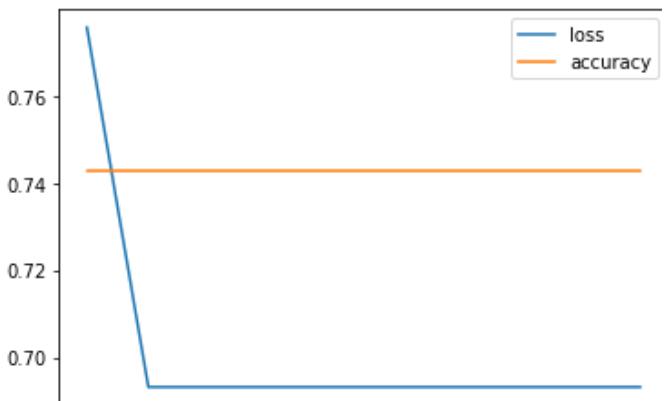
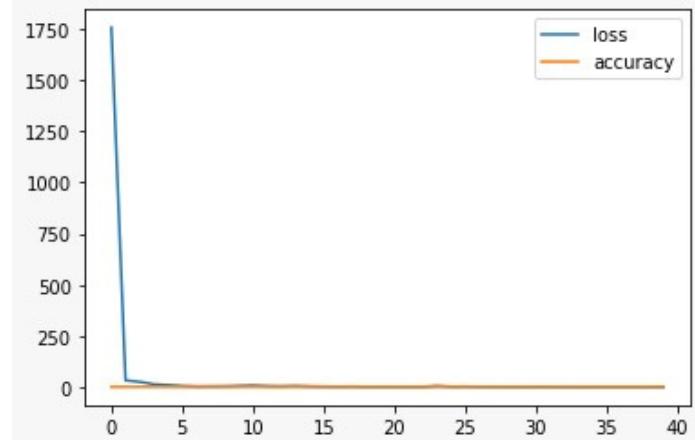
method of grouping n partitions into k groups



# RESULTS

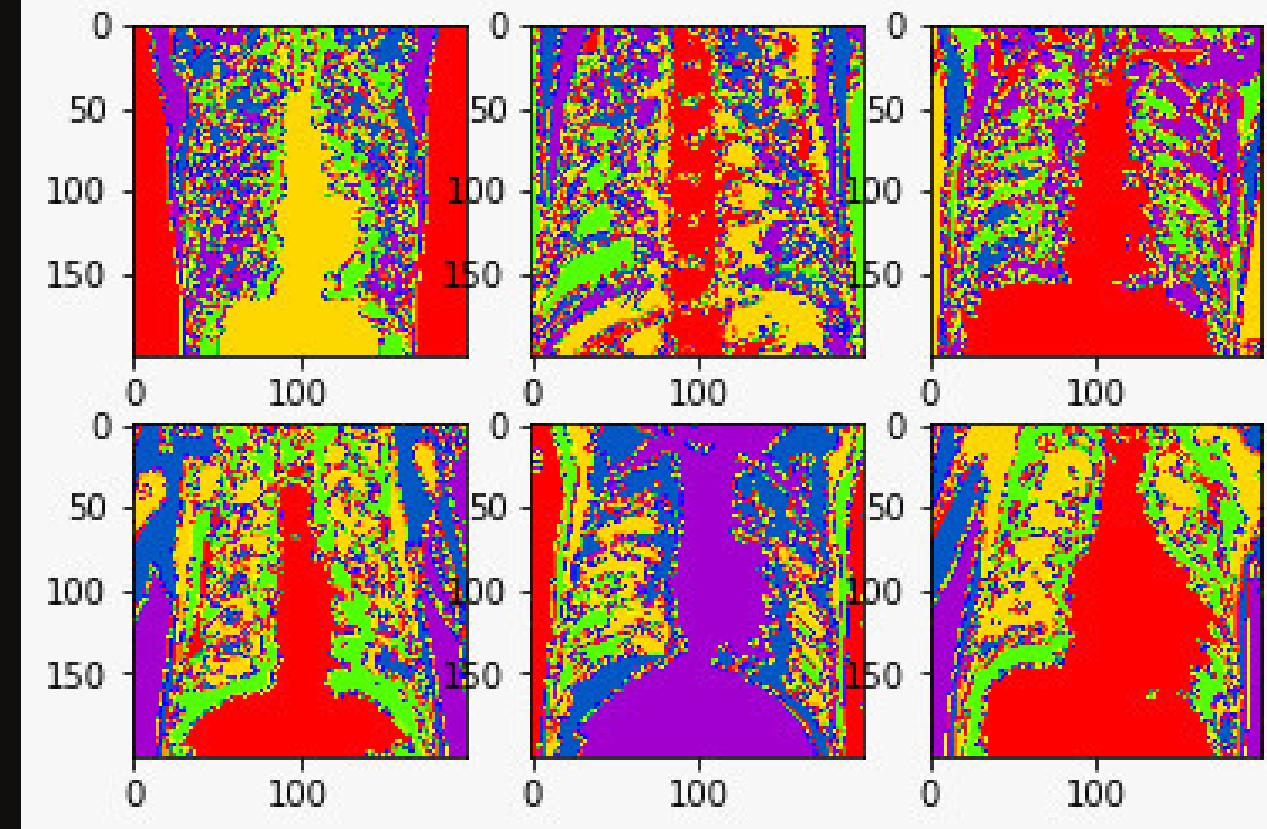
Supervised and non supervised

## SUPERVISED

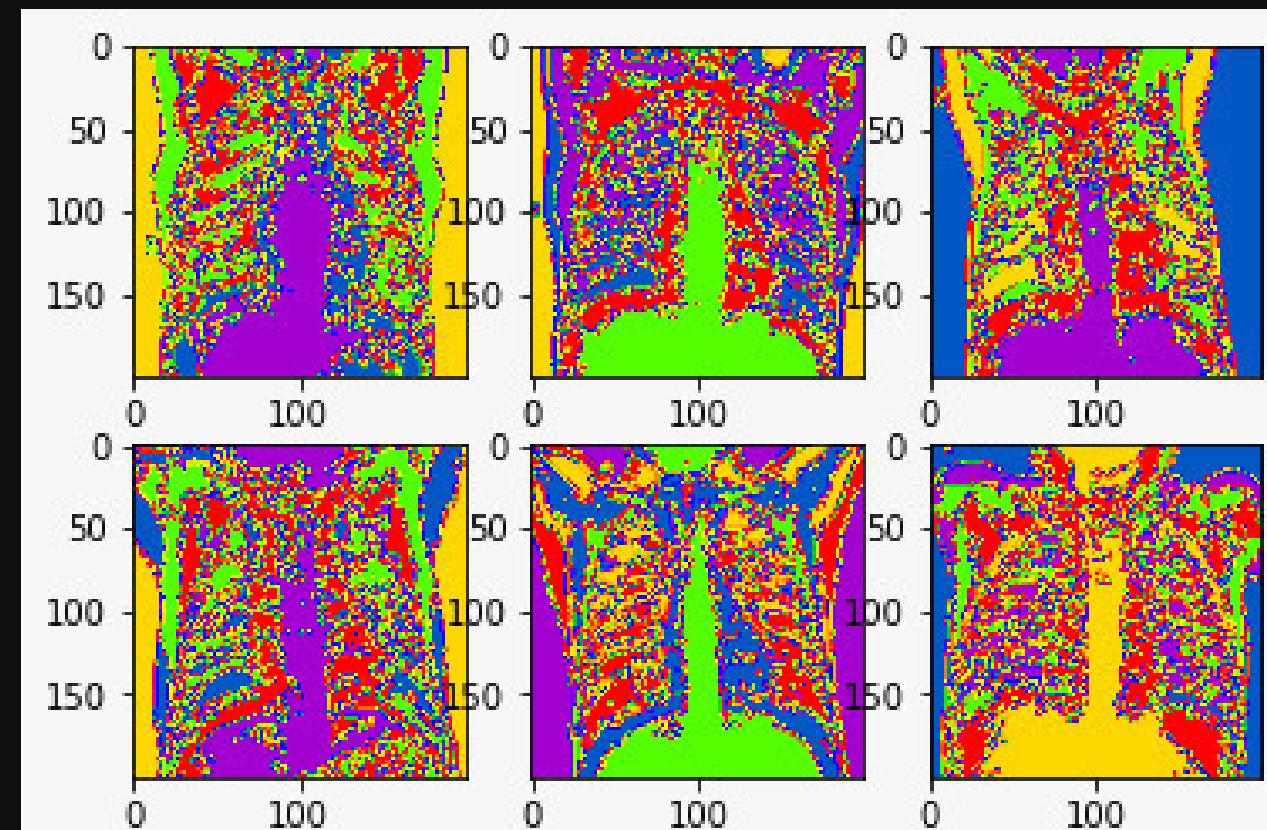


## NON SUPERVISED

NEUMONIA



NORMAL



**THANK  
YOU  
EVERYONE**

