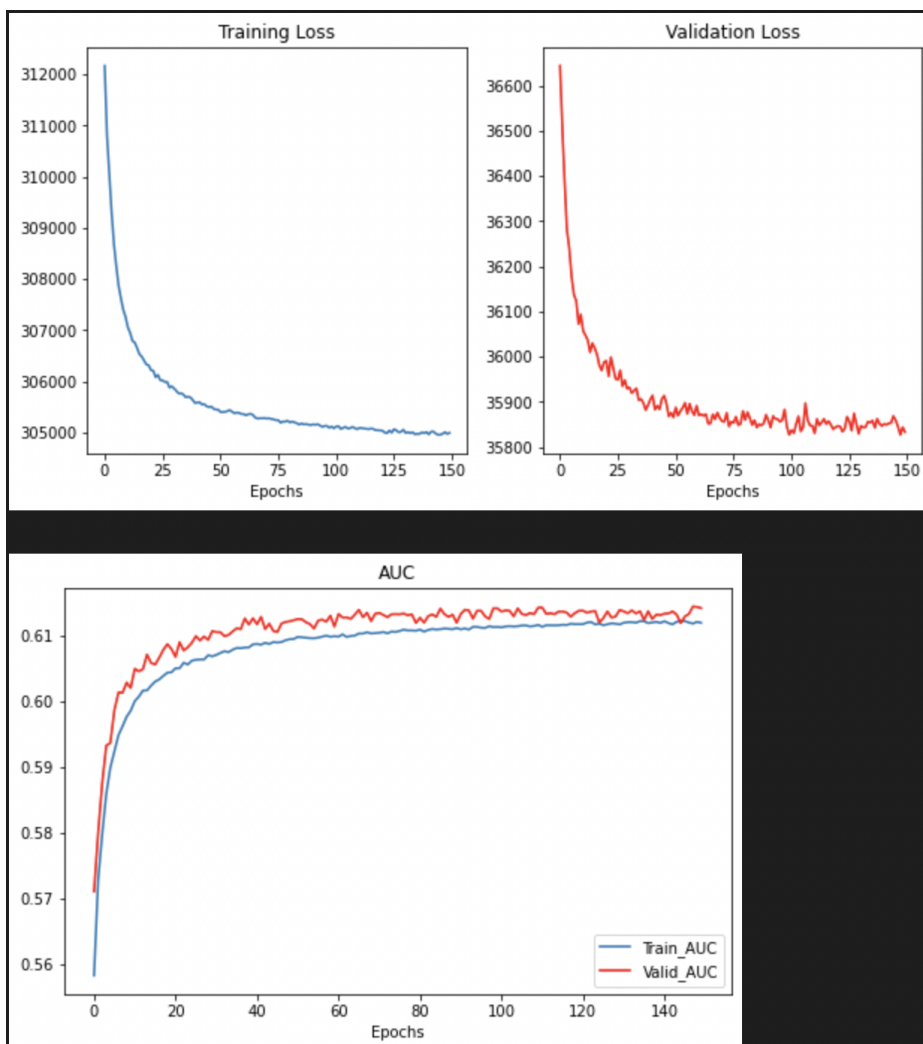


# Pruebas realizadas para el ejercicio Nro3

## Sin embeddings

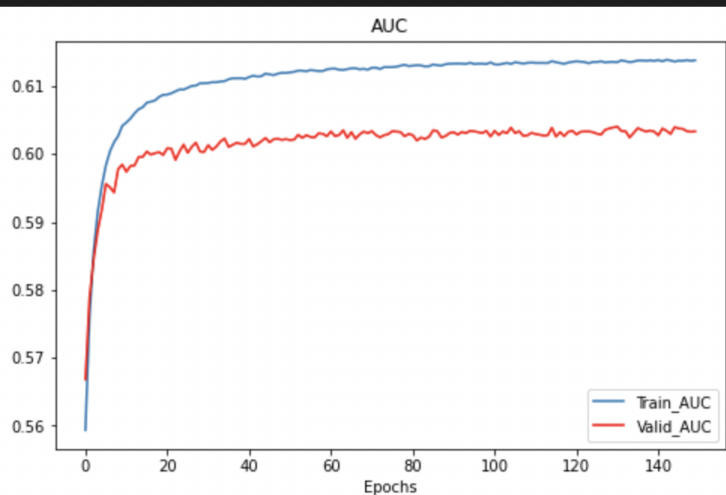
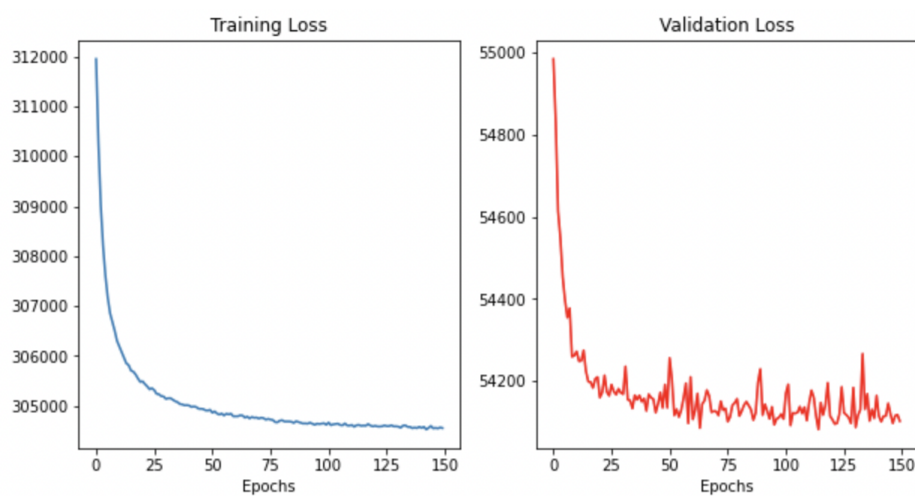
### Prueba nro 1

```
NNet(  
  (linear_1): Linear(in_features=38, out_features=50, bias=True)  
  (relu_1): ReLU()  
  (linear_2): Linear(in_features=50, out_features=50, bias=True)  
  (relu_2): ReLU()  
  (linear_3): Linear(in_features=50, out_features=50, bias=True)  
  (relu_3): ReLU()  
  (linear_4): Linear(in_features=50, out_features=50, bias=True)  
  (relu_4): ReLU()  
  (linear_5): Linear(in_features=50, out_features=50, bias=True)  
  (relu_5): ReLU()  
  (output): Linear(in_features=50, out_features=1, bias=True)  
)
```



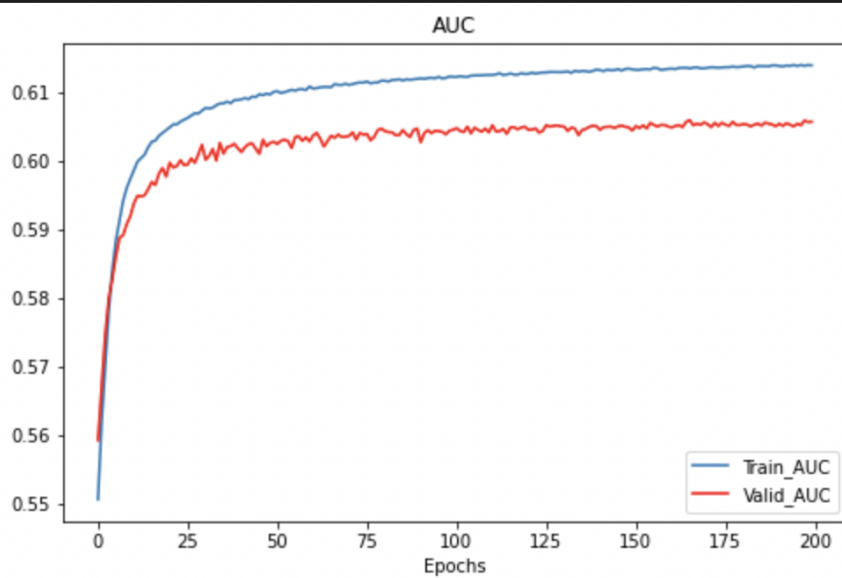
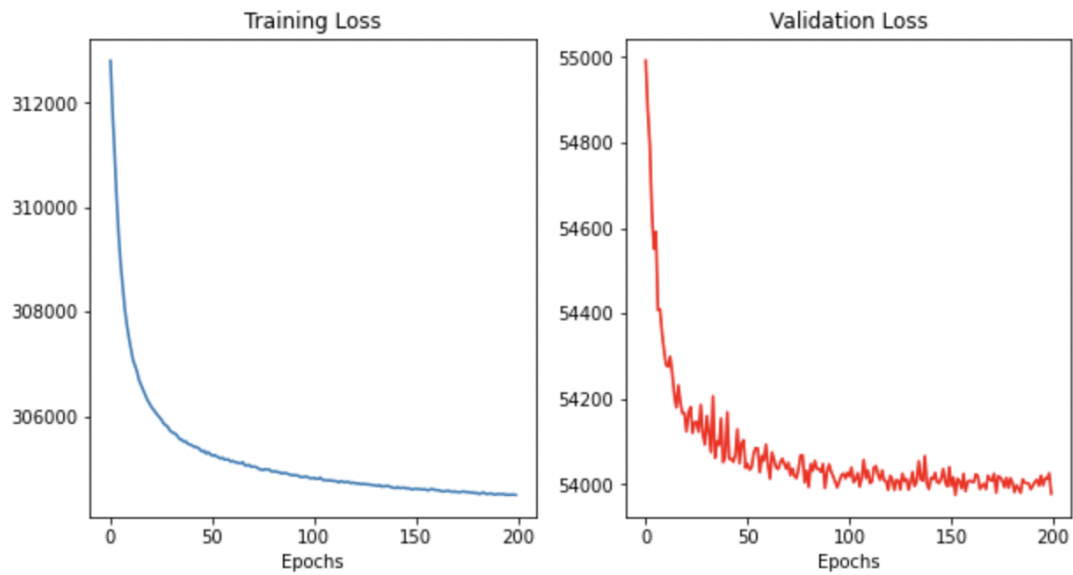
## Prueba nro 2

```
NNet(  
  (linear_1): Linear(in_features=38, out_features=100, bias=True)  
  (relu_1): ReLU()  
  (linear_2): Linear(in_features=100, out_features=100, bias=True)  
  (relu_2): ReLU()  
  (linear_3): Linear(in_features=100, out_features=50, bias=True)  
  (relu_3): ReLU()  
  (linear_4): Linear(in_features=50, out_features=50, bias=True)  
  (relu_4): ReLU()  
  (linear_5): Linear(in_features=50, out_features=50, bias=True)  
  (relu_5): ReLU()  
  (output): Linear(in_features=50, out_features=1, bias=True)  
)
```



## Prueba nro 3

Misma red, cambio lr a 0.0001 y epochs = 200

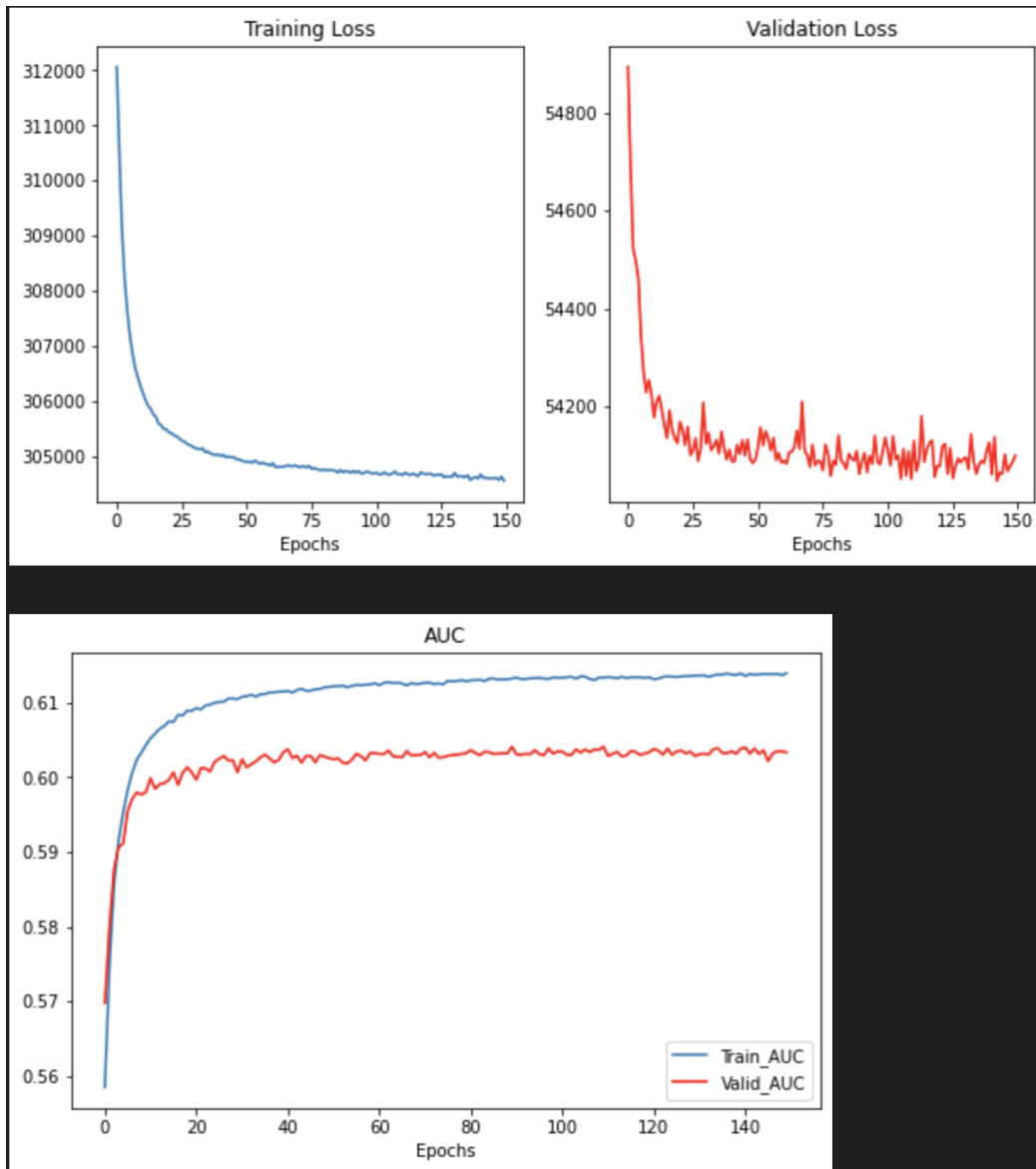


## Prueba nro 4

```

NNNet (
  (linear_1): Linear(in_features=38, out_features=100, bias=True)
  (relu_1): ReLU()
  (linear_2): Linear(in_features=100, out_features=100, bias=True)
  (relu_2): ReLU()
  (linear_3): Linear(in_features=100, out_features=100, bias=True)
  (relu_3): ReLU()
  (linear_4): Linear(in_features=100, out_features=100, bias=True)
  (relu_4): ReLU()
  (linear_5): Linear(in_features=100, out_features=50, bias=True)
  (relu_5): ReLU()
  (output): Linear(in_features=50, out_features=1, bias=True)
)

```

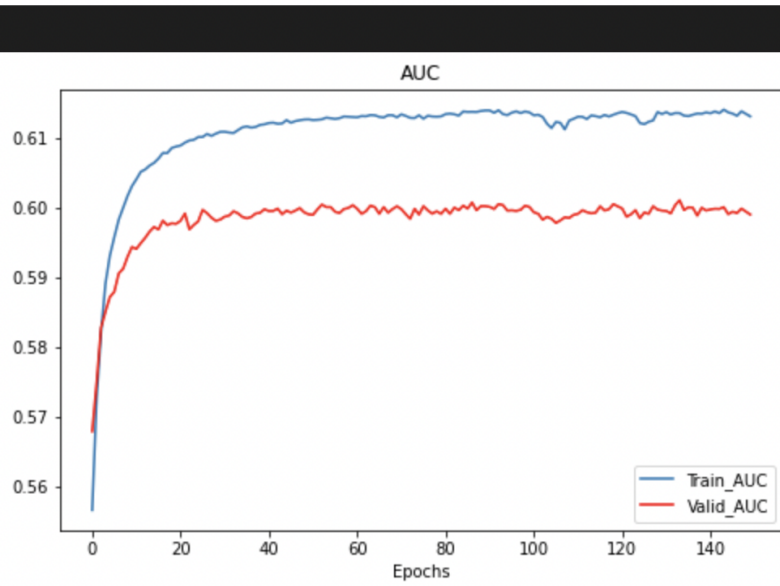
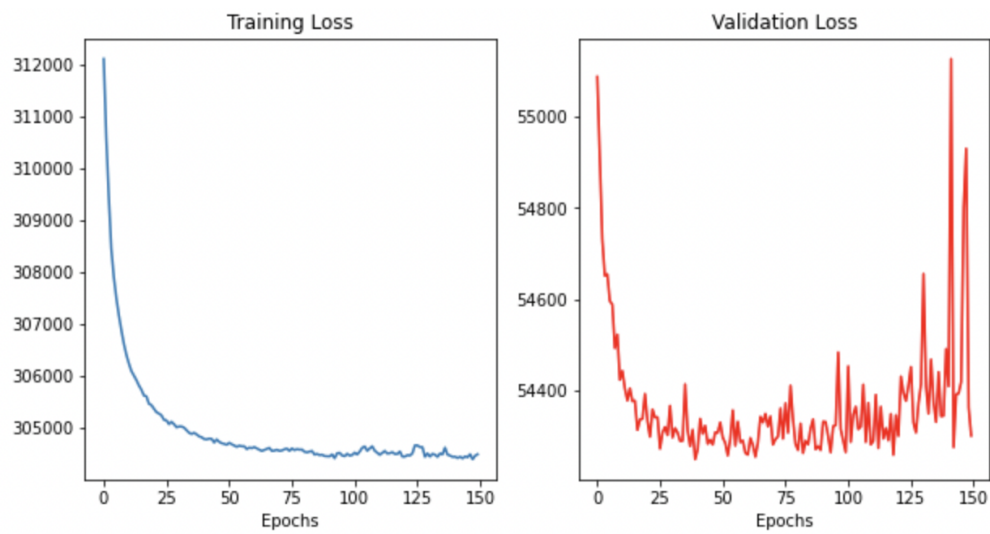


## Prueba nro 5

NNet (

```
(linear_1): Linear(in_features=38, out_features=100, bias=True)
(rel_1): ReLU()
(linear_2): Linear(in_features=100, out_features=100, bias=True)
(rel_2): ReLU()
(linear_3): Linear(in_features=100, out_features=100, bias=True)
(rel_3): ReLU()
(linear_4): Linear(in_features=100, out_features=100, bias=True)
(rel_4): ReLU()
(linear_5): Linear(in_features=100, out_features=100, bias=True)
(rel_5): ReLU()
(linear_6): Linear(in_features=100, out_features=50, bias=True)
(rel_6): ReLU()
(linear_7): Linear(in_features=50, out_features=50, bias=True)
(rel_7): ReLU()
(linear_8): Linear(in_features=50, out_features=50, bias=True)
(rel_8): ReLU()
(linear_9): Linear(in_features=50, out_features=50, bias=True)
(rel_9): ReLU()
```

```
(output): Linear(in_features=50, out_features=1, bias=True)
)
```



## Con Embeddings

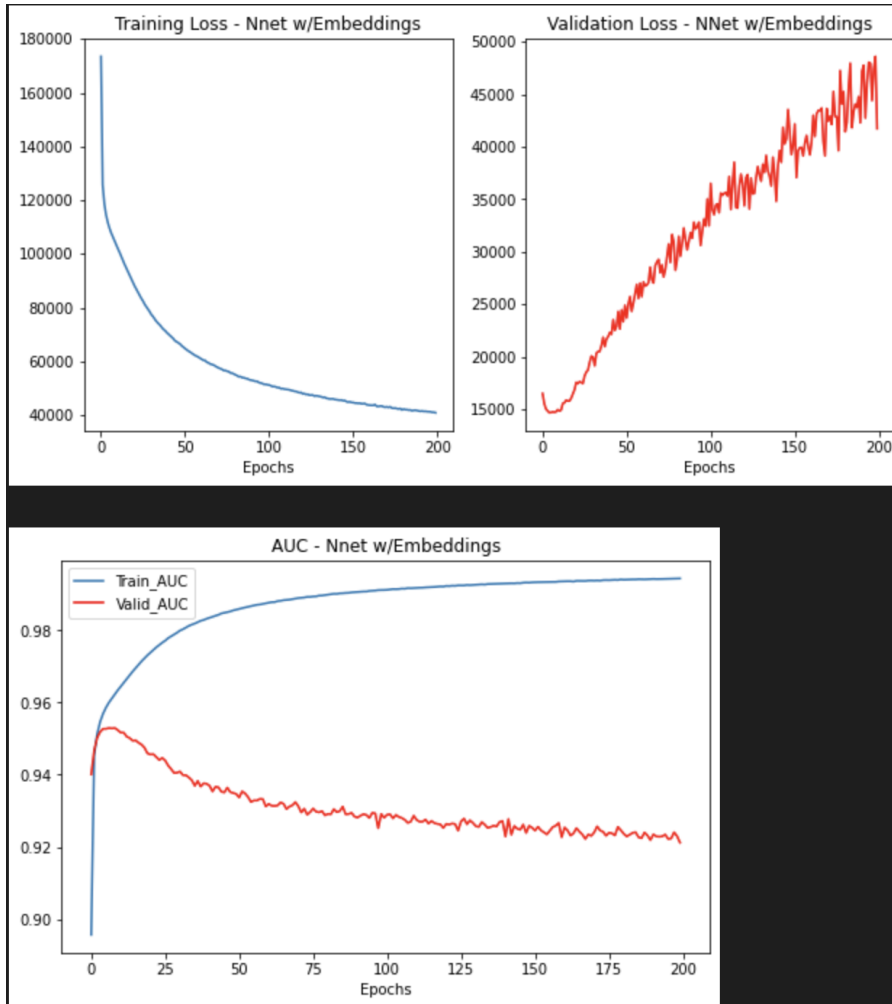
### Prueba nro.1

```
NetWithEmbeddings(
  (embedding_pid): Embedding(3631, 8)
  (embedding_uid): Embedding(5891, 8)
  (linear_1): Linear(in_features=54, out_features=100, bias=True)
  (relu_1): ReLU()
  (linear_2): Linear(in_features=100, out_features=100, bias=True)
  (relu_2): ReLU()
  (linear_3): Linear(in_features=100, out_features=50, bias=True)
  (relu_3): ReLU()
)
```

```

(linear_4): Linear(in_features=50, out_features=50, bias=True)
(relu_4): ReLU()
(linear_5): Linear(in_features=50, out_features=50, bias=True)
(relu_5): ReLU()
(output): Linear(in_features=50, out_features=1, bias=True)
)

```



## Prueba nro 2

Con dropout en todas las hidden layers:

```

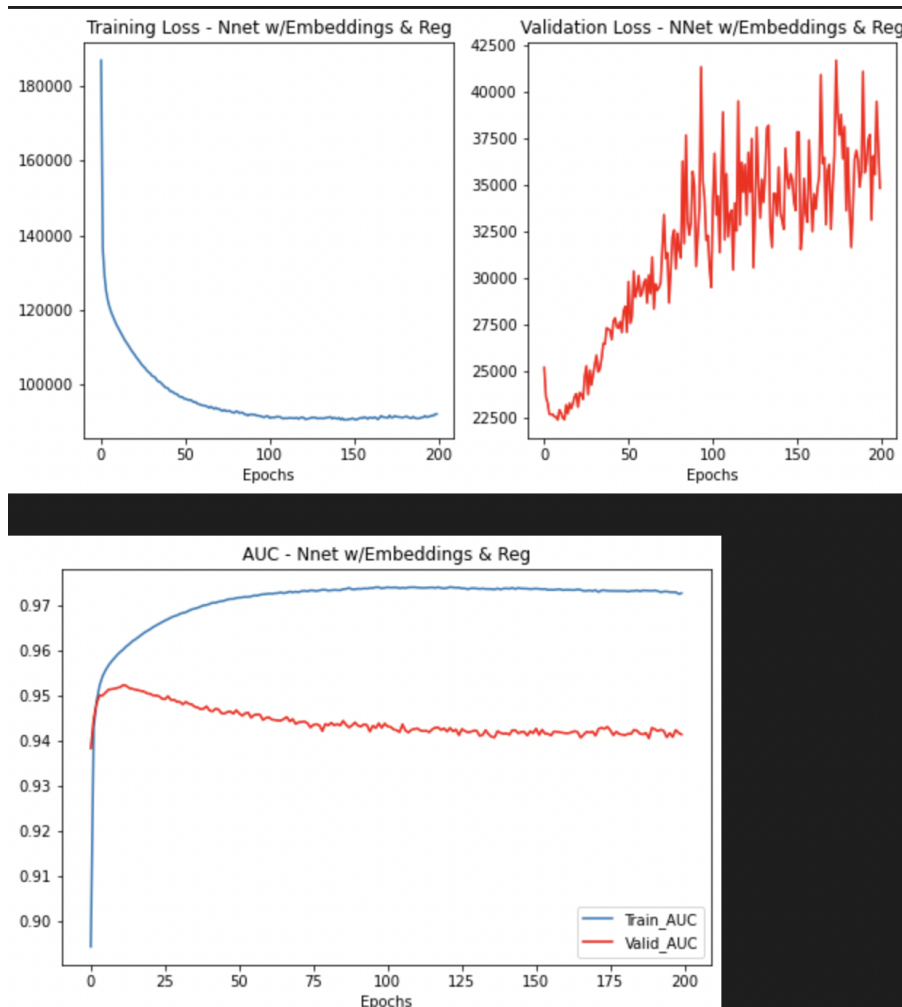
NNNetWithEmbeddings_do(
  (embedding_pid): Embedding(3631, 8)
  (embedding_uid): Embedding(5891, 8)
  (linear_1): Linear(in_features=54, out_features=100, bias=True)
  (relu_1): ReLU()
  (linear_2): Linear(in_features=100, out_features=100, bias=True)
  (dropout_2): Dropout(p=0.3, inplace=False)
  (relu_2): ReLU()
  (linear_3): Linear(in_features=100, out_features=50, bias=True)
  (dropout_3): Dropout(p=0.3, inplace=False)
  (relu_3): ReLU()
  (linear_4): Linear(in_features=50, out_features=50, bias=True)
  (dropout_4): Dropout(p=0.3, inplace=False)
  (relu_4): ReLU()
)

```

```

(linear_5): Linear(in_features=50, out_features=50, bias=True)
(dropout_5): Dropout(p=0.3, inplace=False)
(rel_5): ReLU()
(output): Linear(in_features=50, out_features=1, bias=True)
)

```



Aumento el % de dropout y achico el learning rate (de 0.001 a 0.0001)

