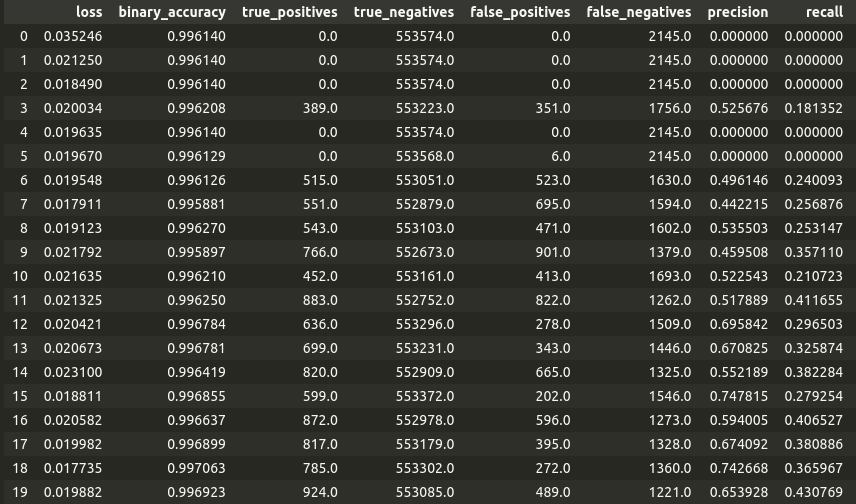
**Model Results**

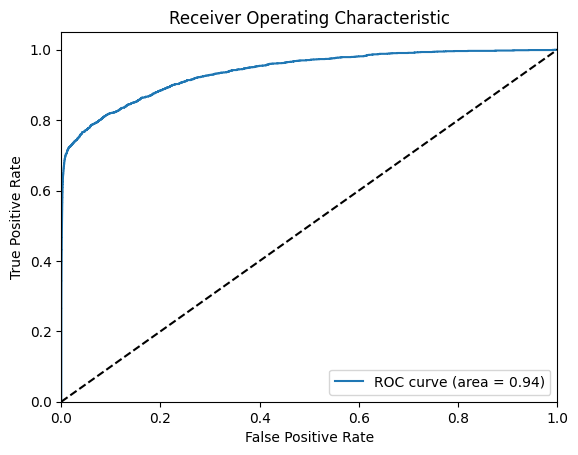
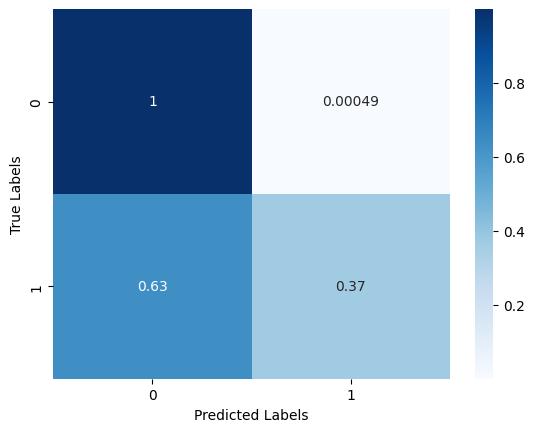
**Stateless**

- Results over 20 epochs:



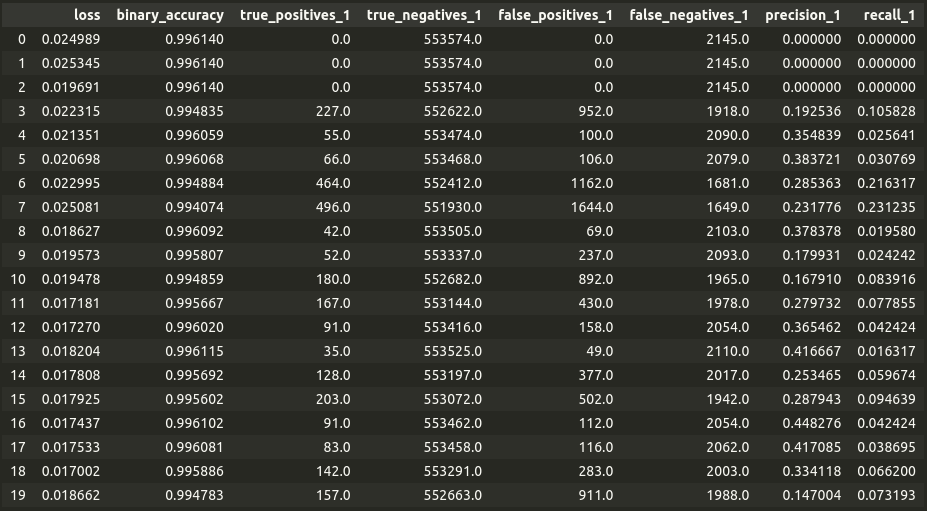
Charts for best epoch: **epoch 16**

**-** Confusion Matrix - ROC curve



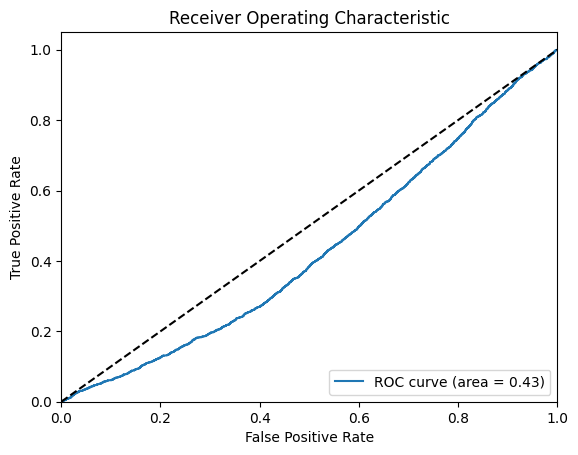
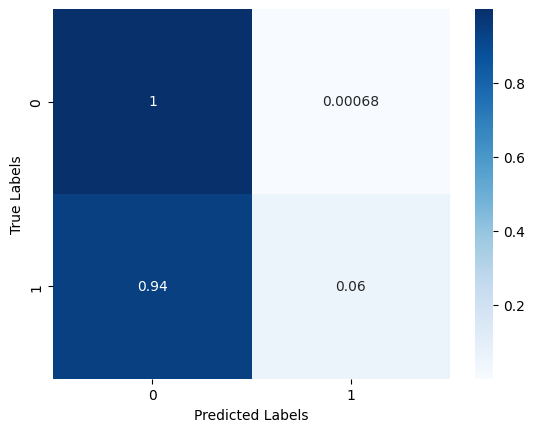
**Global State (single GRU that processes all transactions)**

- Results over 20 epochs:



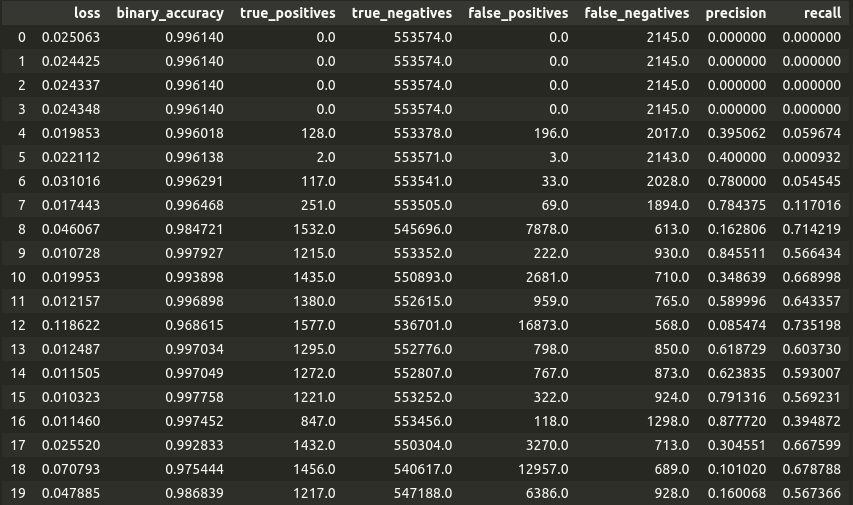
Charts for best epoch: **epoch 14**

**-** Confusion Matrix - ROC curve



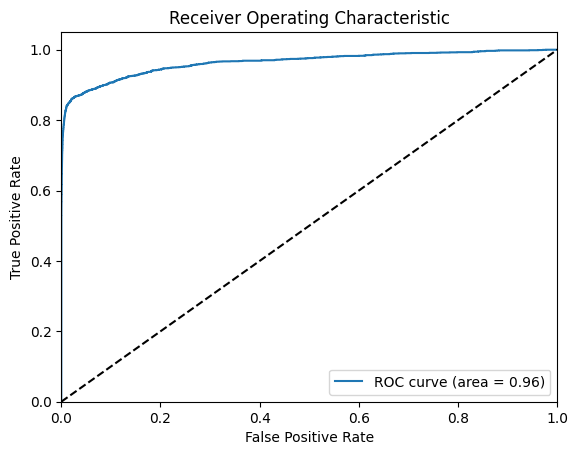
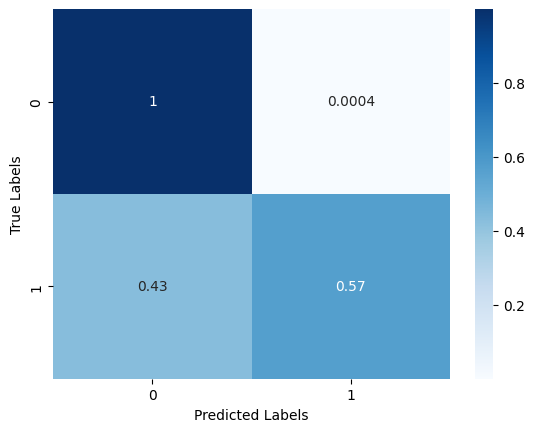
**Feedzai (single shared state for credit cards)**

- Results over 20 epochs:



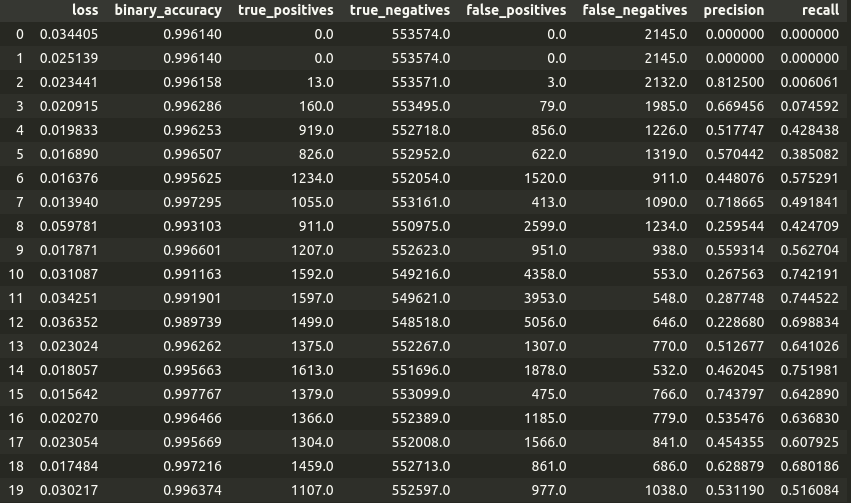
Charts for best epoch: **epoch 9**

**-** Confusion Matrix - ROC curve



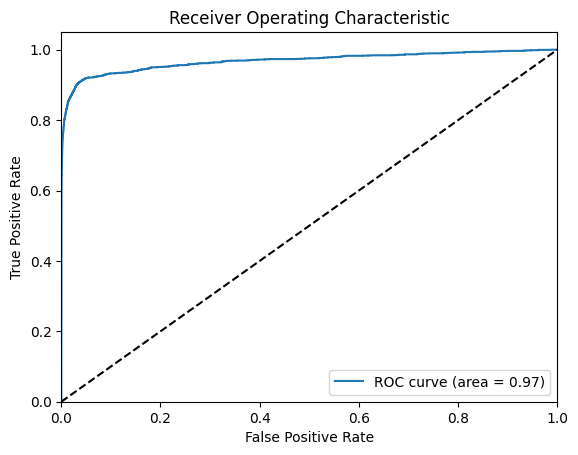
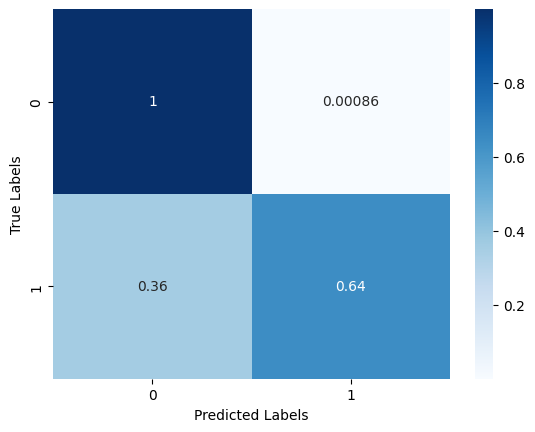
**Double (two shared states, one for credit cards and one for transaction category)**

- Results over 20 epochs:



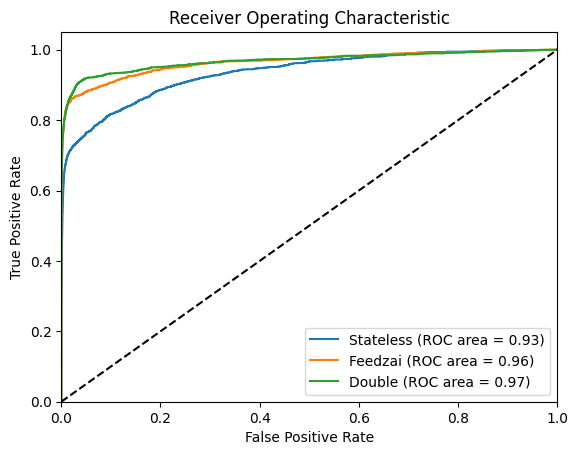
Charts for best epoch: **epoch 15**

**-** Confusion Matrix - ROC curve

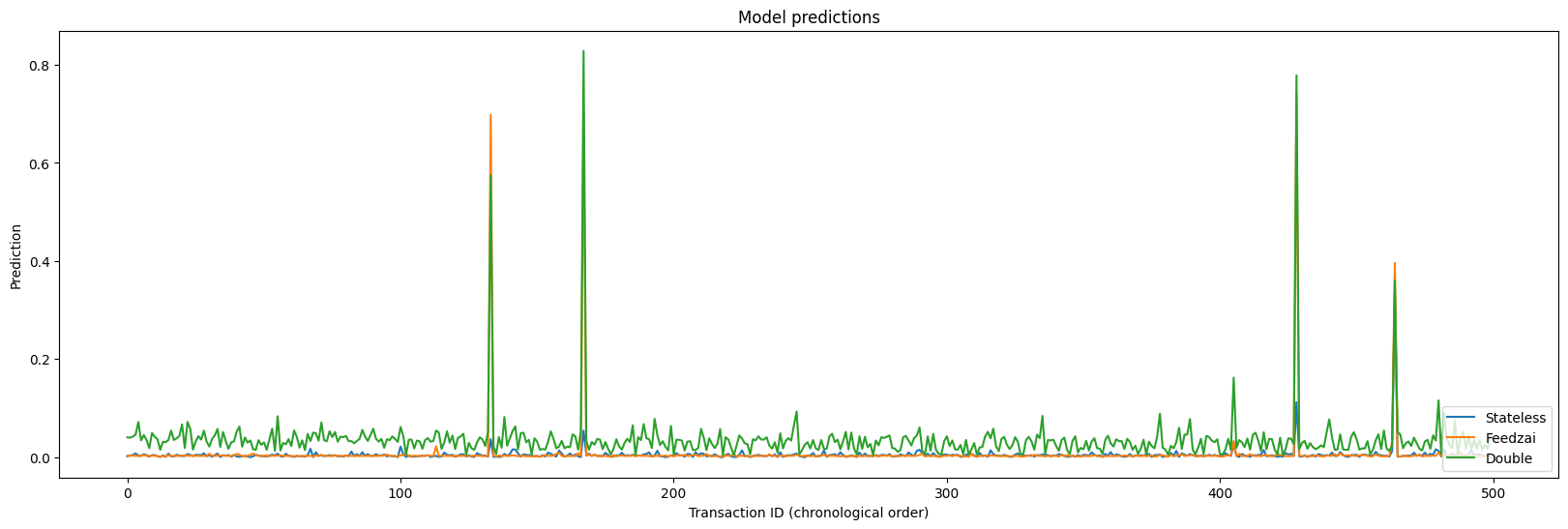


**Global Comparison**

**-** ROC curves

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- Predictions for the first 500 transactions

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