## Eli Taylor

## AI510

## PE04

This assignment used Ludwig for AutoML. I found the library not as easy to work with as I had hoped. I had the same issue some other classmates also reported, related to importing torch. The assignment works in Google Colab for me. A benefit of the approach with Ludwig is that all the model building is abstracted away, so you can simply train and run a model without worrying about things like hyperparameter tuning. This makes the model easier to implement but also less transparent and interpretable.

```
from ludwig api import LudwigModel

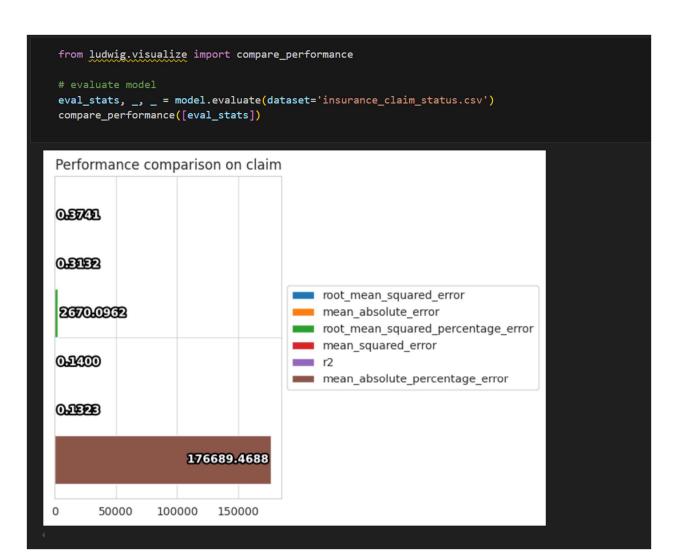
# import and train model

model = LudwigModel(config='model_definition.yaml')

model.train(dataset=df)

/usr/local/lib/python3.10/dist-packages/torch/nn/modules/conv.py:306: UserWarning: Using padding='same' with even kernel lengths ar return F.conv1d(input, weight, bias, self.stride,

TrainingResults(train_stats=TrainingStats(training={'claim': {'loss': [16.162973403930664, 0.4036794602870941, 0.38176482915878296,
```



```
EXPLORER
                       ! model_definition.yaml ×
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                       ! model_definition.yaml
                             input_features:
 ~$01_EliTaylor.docx
                             - name: age
 insurance_claim_statu...
                           type: number
 ! model_definition.yaml
                             - name: agency
 PE01_EliTaylor.docx
                           type: text
 PE04_Eli_Taylor.ipynb
                             - name: commision_value
                           type: number
                             - name: destination
                         9 type: text
                        10 - name: distribution_channel
                        11 type: text
                             - name: duration
                        13 type: number
                             - name: gender
                             - name: net_sales
                        17 type: number
                             - name: product_name
                        19 type: text
                             output_features:
                             type: number
```