

The bests DNN model:

```
model = Sequential()
model.add(Dense(units=1_000, kernel_initializer=init_w, bias_initializer=init_b,
    input_shape=(num_features,)))
model.add(Dropout(dropout_rate))
model.add(Activation("elu"))
for i in range(0, n_hidden):
    model.add(Dropout(dropout_rate))
    model.add(Dense(units=1_000-i*250, kernel_initializer=init_w, bias_initializer=init_b))
    model.add(Dropout(dropout_rate))
    model.add(Activation("elu"))
model.add(Dropout(dropout_rate))
model.add(Dense(units=num_targets, kernel_initializer=init_w, bias_initializer=init_b))
model.add(Dropout(dropout_rate))
model.add(Activation("sigmoid"))

model.compile(
    loss="binary_crossentropy",
    optimizer=Adam(learning_rate=learning_rate),
    metrics=["accuracy"]
)
```

```
learning_rate = 0.001
n_hidden = 3
batch_size = 128
epochs = 50
dropout_rate = 0.0
```