Model metrics

This document is intended to document the selected models' features, parameters, hyperparameters, and performance metrics

Well location prediction:

Three models were evaluated, a dummy model, a single convolution layer Keras Model, and a 2 convolution layer Keras Model. The best performing model was the single convolution layer Keras Model was the best performing.

The structure of the Keras Model was:

Model: "sequential"

Layer (type)	Output	Shape	Param #
conv2d (Conv2D)	(None,	82, 83, 8)	224
flatten (Flatten)	(None,	54448)	0
dropout (Dropout)	(None,	54448)	0
dense (Dense)	(None,	1)	54449

Total params: 54,673 Trainable params: 54,673 Non-trainable params: 0

This model was trained for 8 epochs in batches of 10.

Metrics:

Accuracy: 0.9688644688644689

Balanced accuracy: 0.9689131466540104

Precision score for "visible" 0.9749163879598662 Precision score for "not visible" 0.9615384615384616

Recall score for "visible" 0.96843853820598

Recall score for "not_visible" 0.9693877551020408

Predicted 0.0 1.0 Actual 0.0 475 15 1.0 19 583