# Model Card

## Model Description

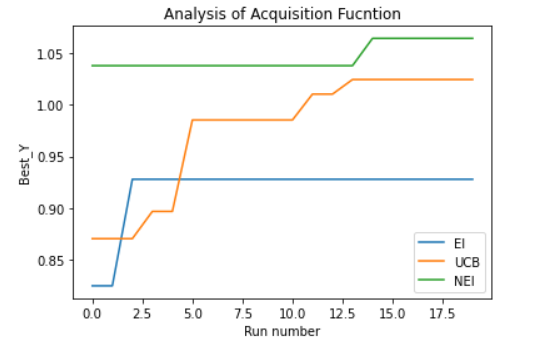
\*\*Input:\*\* Two X values between zero and one for n data points, Y value from Dummy function.

\*\*Output:\*\* Best Y value from different acquisition functions

\*\*Model Architecture:\*\* We make use of PyTorch ‘SingleTaskGP’ and ‘ExactMarginalLogLikelihood’.

## Performance

Given our dummy function contains noise, we show how using ‘Noisy expected improvement’ acquisition function leads to the best results (highest best Y):

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## Limitations

Model results will vary with each run.

## Trade-offs

Ideally we could have increased the number of acquisition functions we are testing.