

# Ex 03: Summarize, Save, Predict

code:

[ex03\\_keras\\_summary\\_save.py](#)

## Notes

the code now takes an argument that must be train or predict

I have checked in the file `ds_model_k_lasing.h5`, this is saved model that did well.

log file of a training run for that model: [log\\_of\\_training\\_ex03.output](#)

## Discuss

- What is it training on? Is it really lasing, or some systematic bias in run?
- Predict on different lasing run - some confidence
- Predict on different no-lasing files
- With batch normalization, during training, we normalize over batch with no-lasing and lasing
  - Good to test predictions on batch with only one or the other, test the saved moving average of the layers
  - Keras has option to normalize over batches during prediction also, could help regularize

## Exercises

predict on a mix of lasing no lasing, just a lasing