Instructions

# File Structure

- SEGP

- Code

- SEGP

- DataGeneration

- GP\_notebook

- SEGP

- Instructions

- SEGP\_VAE

- DataGeneration

- VAE\_notebook

- MLPVAE

- Instructions

- Notes\_and\_Ideas

- Data

- Datasets

- GP

- Dataset1

- VAE

- Dataset1

- Models

- SEGP

- Exp\_001 …

- SEGP\_VAE

- Exp\_001 …

# 

# 

# Data Generation Notebook

1. Specify path to the project’s root directory.
2. Set dataset\_number - this number will be used to create a directory containing all the data from this particular example.
3. The notebook is setup to run on Colab. If not using Colab, set gdrive\_path = ‘’.
4. Run cells to create a dataset.

# VAE Notebook

Contains the class for the Stability-enhanced Gaussian Process. This class is imported into GP\_notebook and is also used by the VAE.

1. Specify path to the project’s root directory.
2. Set dataset\_number - this number will be used to load in the data from the specified dataset.
3. The notebook is setup to run on Colab. If not using Colab, set gdrive\_path = ‘’.
4. Specify experiment number and model name, these parameters are used for setting up directories for storing the models saved during training.
5. The dataloader cell loads in the data before creating the dataloaders. If you would like to continue an existing training run, make sure to load in the idx and test\_idx variables and pass them into the *get\_dataloaders function* as these will ensure the data is permuted and split the same way as before.
6. The following cells define the encoder/decoder, ELBO objective and the training loop. The last of these cells requires the user to define the training settings, such as choice of optimizer. These are then passed into the train function.