Instructions

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# File Structure

- SEGP

- Code

- SEGP

- DataGeneration

- GP\_notebook

- SEGP

- Instructions

- SEGP\_VAE

- DataGeneration

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- MLPVAE

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- Notes\_and\_Ideas

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- Datasets

- GP

- Dataset1

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- Dataset1

- Models

- SEGP

- Exp\_001 …

- SEGP\_VAE

- Exp\_001 …

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# 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.

# SEGP.py

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

# GP Notebook

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. Run through cells to setup dataloaders, define the marginal log likelihood class and train function. The following cell requires the user to define the training settings, such as choice of optimizer. These are then passed into the train function.
5. Following cells plot different aspects of the model.