I was somewhat familiar with developing neural networks using Keras in Python. I could not, however, figure out how Gaussians could be used in building the neural network, nor did I find resources online that were sufficient to guide me in building such a model. So, I decided to build a multi-variable regression model following the pattern of neural network I had done before. I followed the pattern given on <https://machinelearningmastery.com/deep-learning-models-for-multi-output-regression/>. I used Dense layers and ‘relu’ activation for the input layer with a ‘linear’ activation for the output layer which I found to be recommended for multi-output regression models.

I noticed that after about 2000 epochs, the accuracy did not improve, so I chose that for fitting the models. Even so, I could not get my accuracy above around 0.6, so I did not develop a very useful model. I would need to do some serious tinkering and learning in order to develop a more useful model, and to understand the role of Gaussians in carrying out regression.