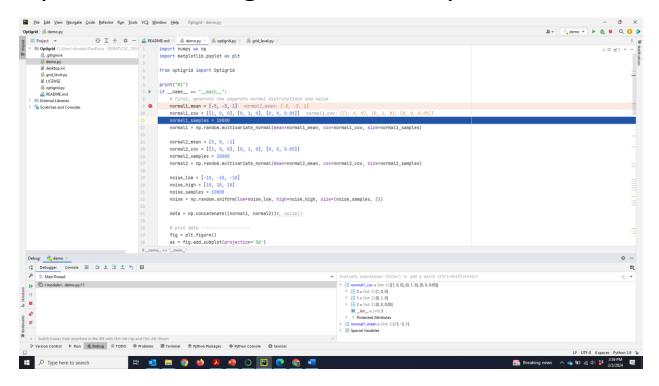
Assignment 3

OptiGrid – Cursing Dimensionality



In this assignment you will examine the mihailescum's OptiGrid implementation, at https://github.com/mihailescum/Optigrid, in order to fully understand the algorithm.

For this assignment you will:

- 1) You will write, in your own words, a description of how the OptiGrid clustering algorithm works.
- 2) You will then download the code, and work through it, writing an extremely detailed description of what it's doing. Specifically, you will write a paragraph explaining each function.
- 3) You will then modify the code demo as necessary to create a 2-D example, and create a figure showing data points and cutting planes the algorithm arrives at. (You may reduce use a smaller number of data points than the 30,000 in their example.)

You will turn in both the code and a short report, discussing what you've implemented, how well it worked, what you've learned, etc.

Remember, you must understand what you turn in – you may be asked to explain it to me and/or the class.