# Run Guild for tuning model

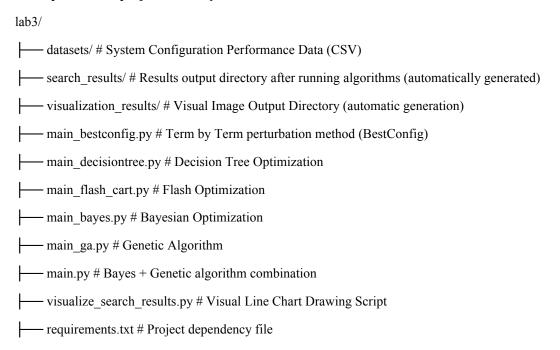
This project is located under the path lab3/, which is a performance tuning experimental system with multi-algorithm comparison.

#### **Environmental preparation**

Make sure you have the following dependencies installed:

pip install -r requirements.txt

### Description of the project directory structure



#### How do you run each optimization algorithm

Each algorithm can be run separately, with the following command (using Flash as an example): python main flash.py

When run, it will:

Automatically reads all CSV datasets in datasets/

Generate the corresponding search record file in search\_results/ (for example: 7z\_search\_results.csv)

Other scripts can be run in turn to complete a system-wide search for all algorithms.

## How do I generate visualizations

After all algorithms have been run, execute the following command to generate search line charts for all systems:

# How saved images

All images will be saved in the visualization\_results/ folder, named in the following format:

 $Search\_Results\_Visualization\_for\_7z.png$ 

Search\_Results\_Visualization\_for\_apache.png