University of Illinois at

Urbana-Champaign

**Scipy Optimizer Performance**

**---- Estimation of Functions**

SPRING 2023

![图形用户界面

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZlbmcgWmhhbwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjUAAJKSAAIAAAADNjUAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Feng Zhao**

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# General Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Iterations | Output Constraint | Degree of Overfitting | | Jacobian | Hessian |
| SLSQP | / | Accept | Small N with low K | Medium[[1]](#footnote-1) | Yes | No |
| Small N with high K | Terrible |
| Large N with low K | Good |
| Large N with high K | Terrible |
| trust-constr | Similar[[2]](#footnote-2)  (In comparison to SLSQP) | Accept | Small N with low K | Perfect | Yes | No |
| Small N with high K | Medium |
| Large N with low K | Good |
| Large N with high K | Bad |
| COBYLA | More  (In comparison to SLSQP) | Accept | Small N with low K | Good[[3]](#footnote-3) | No | No |
| Small N with high K | Medium |
| Large N with low K | Medium |
| Large N with high K | Bad |
| Nelder-Mead | More  (In comparison to SLSQP) | N/A | / | | No | No |
| BFGS | / | N/A | / | | No | Yes |
| CG | More[[4]](#footnote-4)  (In comparison to BFGS) | N/A | / | | Yes | No |
| Newton-CG | Similar  (In comparison to BFGS) | N/A | / | | Yes | Yes |

## Degree of Overfitting

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Data Points Distribution | Function Choice | # Data Points | Degree Level | Degree of Overfitting |
| SLSQP | Uniform:  A sequence of length nd with a starting value of -10 and an ending value of 10 | Single Sigmoid  绿色的钟表  低可信度描述已自动生成 | 10 | 5 | good |
| 10 | terrible |
| 100 | 5 | good |
| 10 | bad |
| Combined Sigmoid | 10 | 5 | bad |
| 10 | terrible |
| 100 | 5 | medium |
| 10 | terrible |
| Rate Changing  图片包含 文本  描述已自动生成 | 10 | 5 | good |
| 10 | bad |
| 100 | 5 | perfect |
| 10 | good |
| Random | Single Sigmoid | 10 | 5 | good |
| 10 | terrible |
| 100 | 5 | good |
| 10 | terrible |
| Combined Sigmoid | 10 | 5 | medium |
| 10 | terrible |
| 100 | 5 | medium |
| 10 | terrible |
| Rate Changing | 10 | 5 | medium |
| 10 | terrible |
| 100 | 5 | medium |
| 10 | terrible |
| Adjusted(weighted) Random | Single Sigmoid | 10 | 5 | good |
| 10 | terrible |
| 100 | 5 | good |
| 10 | terrible |
| Combined Sigmoid | 10 | 5 | good |
| 10 | bad |
| 100 | 5 | good |
| 10 | terrible |
| Rate Changing | 10 | 5 | medium |
| 10 | medium |
| 100 | 5 | good |
| 10 | terrible |
| trust-constr | Uniform  Random  Adjusted(weighted) Random | Single Sigmoid | 10 | 5 | good |
| 10 | medium |
| 100 | 5 | good |
| 10 | bad |
| Combined Sigmoid | 10 | 5 | perfect |
| 10 | good |
| 100 | 5 | medium |
| 10 | terrible |
| Rate Changing | 10 | 5 | good |
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| 100 | 5 | perfect |
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| COBYLA | Uniform | Single Sigmoid | 10 | 5 |  |
| 10 |  |
| 100 | 5 |  |
| 10 |  |
| Random | Combined Sigmoid | 10 | 5 |  |
| 10 |  |
| 100 | 5 |  |
| 10 |  |
| Adjusted(weighted) Random | Rate Changing | 10 | 5 |  |
| 10 |  |
| 100 | 5 |  |
| 10 |  |

|  |  |  |
| --- | --- | --- |
|  | Pros | Cons |
| SLSQP | * Can handle problems with both linear and nonlinear constraint conditions. * Can effectively handle large-scale problems (large size of data points). | * For complex problems, the algorithm may require multiple iterations to find the optimal solution, which may cause over-fitting seriously. |
| trust-constr | * It can generally handle linear and nonlinear constraint conditions. * It can quickly find the optimal solution and balance between global and local convergence. | * May encounter limitations when handling large-scale problems if Jacobian and Hessian matrices are given. |
| COBYLA | * Can perform calculations without requiring Jacobian and Hessian matrices. * Typically requires a bit more iterations to find the optimal solution. | * Can only handle linear constraint conditions, so it is not suitable for problems with nonlinear output constraints. |
| All Three |  | * May converge to local minimum that is not the optimal solution. |

# Output Constraint Setup

## Data Points Arrangement

Even in cases where the optimizer that receives the output constraint does not perform as expected within the given output bound, it is still possible to observe differences in applicable intervals and performance under certain conditions.

When using normal randomization, data points are more likely to be distributed among all regions in space, whereas a small number of data points may result in them being set close to the edges. Therefore, with a larger number of data points, all optimizers tend to perform better. Moreover, given the same number of data points, uniform data points perform better than random ones because the uniform distribution reduces the disparity of the distribution and avoids extreme samples. However, in cases of higher-order polynomials with a large number of data points, the original adjusted random distribution may not perform well, especially for the SLSQP method.

When there are fewer data points, the initial random allocation is likely to lead to more extreme distributions, which are less likely to be adjusted randomly. However, in the case of more data points, the initial randomization has a sufficient degree of randomization, so extreme cases are less likely to occur. In this case, adjusted randomization is used to perform artificial randomization, which reduces the degree of randomness. For higher-order polynomials, slight changes in randomness may result in overfitting, so the adjusted randomization makes it more difficult for the optimizer to fit the line.

To address this issue, we modify the sigmoid function and use another function to generate data points while keeping the range of data points within our desired range. From the image, we can observe that the new function is more conducive to fitting than the simple sigmoid function. Even with only a few data points, various optimizers can still achieve relatively good precision in fitting. However, overfitting remains a problem even with the advanced function. With the exception of SLSQP, both COBYLA and trust-constr are better able to fit the preset data points using the combined sigmoid and rate-changing functions, especially at higher orders.

## Fit Output Bound in Scipy Optimizers

### Nonlinear Constraint

In the given code, there are two variables LB and UB used to specify the lower and upper bound constraints for the output variable y. However, it is important to note that the format of these constraints needs to comply with the requirements of the optimization methods in the scipy library.

![图片包含 图形用户界面

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZlbmcgWmhhbwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjIAAJKSAAIAAAADMjIAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 1.1 Nonlinear Constraints Mathmatical Expression

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中度可信度描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEZlbmcgWmhhbwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTcAAJKSAAIAAAADNTcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 1.2 Nonlinear Constraints Code Expression

For specifying the constraints, a NonlinearConstraint object can be created to define a nonlinear constraint based on a given function that specifies the constraint condition with respect to the decision variables and the boundary values. For the output boundary constraints, the constraint can be defined as:

def output(x):

return A.dot(x)

output\_constraint = NonlinearConstraint(output, LB, UB)

In this code, the output function computes the output y for a given decision variable x and compares it with the boundary constraint values LB and UB. The NonlinearConstraint object uses this function and passes it along with the boundary constraint values to provide the correct output boundary constraint for the scipy optimization functions.

Then, this constraint can be passed to the optimization function's constraints parameter, for example:

result = optimize.minimize(norm2\_sq,x0=np.zeros(Korder),method='trust-constr',tol=1e-9, callback=save\_xk\_trust\_constr, args=(A, y), constraints=[output\_constraint])

The reason for using different constraint forms for different methods is that each method has different requirements for how the constraints should be expressed. For example, the trust-constr method requires a NonlinearConstraint object, while the SLSQP and COBYLA methods require inequality constraints.

In summary, the appropriate constraint form needs to be selected according to the requirements of the optimization method to ensure the correctness and effectiveness of the constraints.

### Inequality Constraints vs. Equality Constraints

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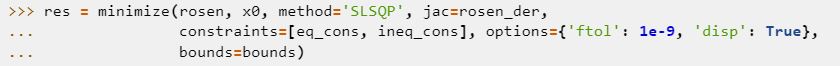
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5EX/ADyT/vkUAU/tdv8A8/EX/fYo+12//PxF/wB9irnkRf8APJP++RR5EX/PJP8AvkUAU/tdv/z8Rf8AfYo+12//AD8Rf99irnkRf88k/wC+RR5EX/PJP++RQBT+12//AD8Rf99ij7Xb/wDPxF/32KueRF/zyT/vkUeRF/zyT/vkUAU/tdv/AM/EX/fYo+12/wDz8Rf99irnkRf88k/75FHkRf8APJP++RQBT+12/wDz8Rf99ij7Xb/8/EX/AH2KueRF/wA8k/75FHkRf88k/wC+RQBT+12//PxF/wB9ij7Xb/8APxF/32KueRF/zyT/AL5FHkRf88k/75FAFP7Xb/8APxF/32KPtdv/AM/EX/fYq55EX/PJP++RR5EX/PJP++RQBT+12/8Az8Rf99ij7Xb/APPxF/32KueRF/zyT/vkUeRF/wA8k/75FAFP7Xb/APPxF/32KPtdv/z8Rf8AfYq55EX/ADyT/vkUeRF/zyT/AL5FAFP7Xb/8/EX/AH2KPtdv/wA/EX/fYq55EX/PJP8AvkUeRF/zyT/vkUAU/tdv/wA/EX/fYo+12/8Az8Rf99irnkRf88k/75FHkRf88k/75FAFP7Xb/wDPxF/32KPtdv8A8/EX/fYq55EX/PJP++RR5EX/ADyT/vkUAU/tdv8A8/EX/fYo+12//PxF/wB9irnkRf8APJP++RR5EX/PJP8AvkUAU/tdv/z8Rf8AfYo+12//AD8Rf99irnkRf88k/wC+RR5EX/PJP++RQBT+12//AD8Rf99ij7Xb/wDPxF/32KueRF/zyT/vkUeRF/zyT/vkUAU/tdv/AM/EX/fYo+12/wDz8Rf99irnkRf88k/75FHkRf8APJP++RQBT+12/wDz8Rf99ij7Xb/8/EX/AH2KueRF/wA8k/75FHkRf88k/wC+RQBT+12//PxF/wB9ij7Xb/8APxF/32KueRF/zyT/AL5FHkRf88k/75FAFP7Xb/8APxF/32KPtdv/AM/EX/fYq55EX/PJP++RR5EX/PJP++RQBT+12/8Az8Rf99ij7Xb/APPxF/32KueRF/zyT/vkUeRF/wA8k/75FAFP7Xb/APPxF/32KPtdv/z8Rf8AfYq55EX/ADyT/vkUeRF/zyT/AL5FAFP7Xb/8/EX/AH2KPtdv/wA/EX/fYq55EX/PJP8AvkUeRF/zyT/vkUAU/tdv/wA/EX/fYo+12/8Az8Rf99irnkRf88k/75FHkRf88k/75FAFP7Xb/wDPxF/32KPtdv8A8/EX/fYq55EX/PJP++RR5EX/ADyT/vkUAU/tdv8A8/EX/fYo+12//PxF/wB9irnkRf8APJP++RR5EX/PJP8AvkUAU/tdv/z8Rf8AfYo+12//AD8Rf99irnkRf88k/wC+RR5EX/PJP++RQBT+12//AD8Rf99ij7Xb/wDPxF/32KueRF/zyT/vkUeRF/zyT/vkUAU/tdv/AM/EX/fYo+12/wDz8Rf99irnkRf88k/75FHkRf8APJP++RQBT+12/wDz8Rf99ij7Xb/8/EX/AH2KueRF/wA8k/75FHkRf88k/wC+RQBT+12//PxF/wB9ij7Xb/8APxF/32KueRF/zyT/AL5FHkRf88k/75FAFP7Xb/8APxF/32KPtdv/AM/EX/fYq55EX/PJP++RR5EX/PJP++RQBT+12/8Az8Rf99ij7Xb/APPxF/32KueRF/zyT/vkUeRF/wA8k/75FAFP7Xb/APPxF/32KPtdv/z8Rf8AfYq55EX/ADyT/vkUeRF/zyT/AL5FAFP7Xb/8/EX/AH2KPtdv/wA/EX/fYq55EX/PJP8AvkUeRF/zyT/vkUAU/tdv/wA/EX/fYo+12/8Az8Rf99irnkRf88k/75FHkRf88k/75FAFP7Xb/wDPxF/32KPtdv8A8/EX/fYq55EX/PJP++RR5EX/ADyT/vkUAU/tdv8A8/EX/fYo+12//PxF/wB9irnkRf8APJP++RR5EX/PJP8AvkUAU/tdv/z8Rf8AfYo+12//AD8Rf99irnkRf88k/wC+RR5EX/PJP++RQBT+12//AD8Rf99ij7Xb/wDPxF/32KueRF/zyT/vkUeRF/zyT/vkUAU/tdv/AM/EX/fYo+12/wDz8Rf99irnkRf88k/75FHkRf8APJP++RQBT+12/wDz8Rf99ij7Xb/8/EX/AH2KueRF/wA8k/75FHkRf88k/wC+RQBT+12//PxF/wB9ij7Xb/8APxF/32KueRF/zyT/AL5FHkRf88k/75FAFP7Xb/8APxF/32KPtdv/AM/EX/fYq55EX/PJP++RR5EX/PJP++RQBT+12/8Az8Rf99ij7Xb/APPxF/32KueRF/zyT/vkUeRF/wA8k/75FAFP7Xb/APPxF/32KPtdv/z8Rf8AfYq55EX/ADyT/vkUeRF/zyT/AL5FAFP7Xb/8/EX/AH2KPtdv/wA/EX/fYq55EX/PJP8AvkUeRF/zyT/vkUAU/tdv/wA/EX/fYo+12/8Az8Rf99irnkRf88k/75FHkRf88k/75FAFP7Xb/wDPxF/32KPtdv8A8/EX/fYq55EX/PJP++RR5EX/ADyT/vkUAU/tdv8A8/EX/fYo+12//PxF/wB9irnkRf8APJP++RR5EX/PJP8AvkUAU/tdv/z8Rf8AfYo+12//AD8Rf99irnkRf88k/wC+RR5EX/PJP++RQBT+12//AD8Rf99ij7Xb/wDPxF/32KueRF/zyT/vkUeRF/zyT/vkUAU/tdv/AM/EX/fYo+12/wDz8Rf99irnkRf88k/75FHkRf8APJP++RQBT+12/wDz3i/77FY17G1xeSSxDKNjB9cDFdL5EX/PJP8AvkVMiIEACqPwoA//2Q==)

Figure 1.3&1.4 Equality Constraint & Inequality Constraint

In the Scipy optimization module, different methods can be used to handle equality and inequality constraints.

For equality constraints, LinearConstraint or NonlinearConstraint classes can be used to specify them. LinearConstraint is used for linear constraints and can be expressed as an equation. NonlinearConstraint is used for nonlinear constraints and can be specified as any function. When using these constraints, they need to be passed to the constraints parameter.

For inequality constraints, Bounds class or NonlinearConstraint class can be used to specify them. Bounds is used to specify upper and lower bounds for each variable, while NonlinearConstraint can be used for nonlinear constraints. When using Bounds, it needs to be passed as a tuple (lower, upper) to the bounds parameter of the optimization function.

When using these constraints, they need to be passed to the constraints parameter. During the optimization process, these constraints will be used to determine the feasible region and select feasible solutions in the search space to obtain the optimal solution. The output result of the optimization function will contain the optimal solution and other relevant information, such as whether the constraints are satisfied and whether the optimization function has converged.

### Norm function

Regarding the use of the Norm function, it is used to compute the squared Euclidean norm of the residual vector Ax-b, where A is the matrix of basis functions, x is the vector of unknown coefficients, and b is the vector of output values. The Norm function is defined as:

def norm2\_sq(x\_choose, A, b):

return np.linalg.norm(A.dot(x\_choose) - b)\*\*2

Here, the Norm function computes the squared Euclidean norm of the residual vector Ax-b. This function is then passed to the optimization function as the objective function to be minimized. The optimization function then tries to find the unknown coefficients x that minimize the residual vector, subject to the specified constraints.

# Code Explanation

The code is in Python and it imports the necessary modules such as numpy, matplotlib and scipy. First, the code defines a function called 'make\_matrix'. This function takes an input variable called 'x\_choose' and returns an array with shape (len(x\_choose), k) where k is a default value of 6. The array is constructed using a loop that appends 'x\_choose \*\* i' to an empty list called 'a', where 'i' ranges from 0 to k-1. The list is then converted into a numpy array and transposed.

After defining the 'make\_matrix' function, the code sets a variable called 'Korder' (with a value of 5). It then calls the 'make\_matrix' function to create an array 'a' using the input variable 'x\_choose' and 'Korder'. Using the 'lstsq' function from numpy, the code computes the least-squares solution to a linear matrix equation (ax = y), where a is 'a' and y is another parameter that is not defined in this code snippet. The resulting solution is stored in the variable 'x\_solution'.

Next, the code creates another variable called 'c', which is the first element of 'x\_solution'. Then, it uses 'make\_matrix' again to create an array 'a' using the input variable 'xtest' and 'Korder'. It sets 'ytest' equal to the dot product of 'a' and 'c'.

The code then defines a function called 'norm2\_sq' which takes three input variables - 'x\_choose', 'A' and 'b'. The function returns the square of the norm of the difference between 'A' dot 'x\_choose' and 'b', where the norm used is the one provided by numpy.linalg.norm.

After the definition of the 'norm2\_sq' function, the code creates an array 'A' using 'make\_matrix' and 'Korder'. It then defines a list called 'history'. The code continues with defining two more functions called 'save\_xk' and 'save\_xk\_trust\_constr'. They both append x to the 'history' list.

The next few lines of code set lower and upper bounds 'LB' and 'UB' equal to 0 and 1 respectively. A function called 'output' is defined which returns the dot product of 'A' and 'x'. Then, it creates a NonlinearConstraint object called 'ybound\_constr' that constrains the output of the 'output' function to be within the range (0,1). This constraint is used in the 'optimize.minimize' function with the method set to 'trust-constr'. The resulting solution is stored in a variable called 'result'.

In the final part of the code, there's a loop that goes through three optimization methods (SLSQP, trust-constr, and COBYLA) and for each method, it calls the 'optimize.minimize' function with the corresponding constraints. The resulting solutions are stored in the variable 'cf' and plotted using the 'plot\_result' function.

Overall, this code performs some linear algebra operations and uses optimization techniques to solve for a bounded least-squares problem. There are also additional plotting and saving functionalities.

1. From high level to low for overfitting: Perfect – Good – Medium – Bad – Terrible [↑](#footnote-ref-1)
2. From high level to low for # iterations: More – Similar – Less [↑](#footnote-ref-2)
3. However, it performs terrible in all cases while using Sigmoid(5+x) + Sigmoid(5-x) -1 as function for data points generation [↑](#footnote-ref-3)
4. From high level to low for # iterations: More – Similar – Less [↑](#footnote-ref-4)