

# Critique document for Stochastic Optimization & Visualisation SRS

April 12, 2021

I will enumerate the strengths and weaknesses of the SRS on Stochastic Optimisation and Visualisation.

- **Strengths:**

- I really liked the overall flow of the SRS document. It seemed really structured and the way it was presented in easy language. It didn't took much time to get hold of what exactly is concept behind the product.
- The SRS was written to the point and points have not been emphasised again and again to make it look bigger. This made it more readable and easy to comprehend.
- They have presented their requirements and have also provided certain notes here and there (though they were a bit obvious) to make sure that the other teams don't miss those.
- Have adhered to the IEEE best practices convention for most of the part.

- **Weaknesses:**

- While reading the first part of the document, I got confused in between are we trying to optimize for the loss function or we are trying to find the minima of the real function. This happened since the SRS doc uses the terms function and loss function interchangeably and also in the initial part of the report, it was asked to find minima of any function.
- Next problem was in the description of User Interface. It said that they want a GUI to be implemented, but it was nowhere specified that whether they want the GUI on website itself or they wanted a separate GUI which renders on OS first and then displays the graph on website.
- It was not clear as to how are commands that we want to input through keyboard are supposed to be given. Is it that user being anywhere on the screen and types the commands for them to be performed or is there a specific place like command box where he has to enter them.

- It was not clear as to what do they mean by help tab. It is nowhere told how do they want the result of help instruction to be rendered and saying help tab is pretty vague.
- Similarly, opening of a drop down menu to choose functions through commands doesn't make much sense to me. First of all, which drop down menu is being referred to here, is there a form as well besides using keyboard shortcuts? If yes, it hasn't been mentioned anywhere in UI. I did what I thought would be appropriate if we are asked to provide keyboard shortcuts to the user.
- Toggling feature was also difficult to understand. Do they want toggling the fields through command box or toggling on the form. The form components has nowhere been specified but I assumed they want toggling for the form fields.
- The list of functions to choose from is not provided, similarly the list of optimizers is not provided. These cannot be added by the designer and had to be clearly specified in the SRS.
- There was a slight confusion whether a database is required or not. They have not clearly mentioned whether they want a database or not. They have said new functions need not be stored in database but what about data and what is to be done with the stored data. Also, there is no mention of database anywhere in the software requirements section.