YIELD PREDICTION APPLICATION (Activity #5)

Reflection:

1)How I felt about this project:

I feel more comfortable, and I feel good about myself after finishing this project. I can sense the feeling of accomplishment. When I was researching and studying about the UN goals. I realized that there are so many people who are struggling because of poverty, lack of education and knowledge awareness. I feel bad and I thought that if I can just give small amount of contribution towards this cause and support & helps farmers to increase their profit then it will at least fulfill the needs of farmers to some extent. The prediction uses different techniques from data mining, artificial intelligence to analyze current data to make prediction about future and Matlab allows matrix manipulation, plotting functions and data, implement algorithm & creation of user interface. Therefore, for this project, I selected Matlab for numeric computing which helps in yield prediction.

2)What went well during the project:

Overall, the project went very well.

- Coding is completed on time – The coding of my project is completed & finished on schedule time duration and fulfilled the requirements.
- Learned about new platforms.
- Resolved the issues and the goals & objectives are achieved.

3)What not went well during the project:

I feel its ok it could be better but just did not satisfy myself.

- This project does not work for analysis purpose and analysis algorithm is not applied – If farmers want to do the analysis while looking at the previous year crop production, then they would not be able to do so

because I have not applied the prediction analysis algorithm due to time limitation as I would have explored and study more about this.

- Design is not professional – The design of the project is not so professional. If I would have much time as I was beginner to this Matlab environment, I could have learned more designing features in Matlab app designer and added those features in my application.

3)Software design activities and findings:

The design activity is the outcome of the software architecture. Software design includes identifying & explanation of the software system components & their relationships. The activities during this application building are mainly based on planning, designing implementation and testing. The flowchart of the system is showing the steps how this application works and how the methods are implemented. I can link the plan and desired result with this software design because this prediction can be achieved by this designed application which I planned in the beginning.

4)What would you do the same on future projects?

In the future projects, I will use the Matlab environment because I found out that Matlab helps in programming and numerical computing platforms to analyze data, develop algorithm, and create models. For the analysis purpose and getting results in graphics after exploring the dataset, Matlab is the best platform. I have designed this project from scratch so I got to know the benefits and advantages of this platform and I will use this Matlab in my upcoming project according to requirements.

5)What would you do differently on future projects?

In this project, I lack behind to apply analysis algorithm for the yield prediction based on the previous dataset. In the future projects, I will plan the things accordingly and will be able to reserve some time so that I can use that time to try

something different design and algorithm method which may lead my application work in better manner.