

Questions

- What do you expect from the project on the high level?
 - In general we expect the program to classify cropped images of individual cells as either ALL or hem, this program should have a gui with the clinical details of all patients.
- How usefull will it be?
 - It will assist our practitioners in improving the diagnosis of ALL. Since the current diagnostic procedure is time consuming and expensive we expect this program to provide us with a more efficient way to diagnose 'em.
- Who is going to use that application and what is their background in technical knowledge?
 - On daily basis, the doctors would be using this application to enter patients data and pathological images of cell batches. We assume that they have a decent exposure to computer skills and can use an intuitively designed user interface after a training.
 - Also, the administrators will be using the program to monitor and authorize doctors,
- What are the specific functionalities that the application should have?
 - So we expect the program to have an authentication mechanism so that only administrators and doctors will be using it.
 - Application should clearly convey the diagnosed results of the patient by fitting the model on the batch.
 - Application should keep record of all past diagnosis history along with clinical details.
 - The doctors should be able to enter patients clinical details along with pathological images.
 - The model should achieve an accuracy of about 85 - 90 % regardless of data distribution
 - Should be able to export the results
 - in general The image would be jpg format
 - Typical size of a image would be around 0.5 - 2 megabytes
- What are the different types of cells that the application should be able to distinguish between?
 - ALL and hem
- What is the number of images in each batch?
 - 15 - 50
- How will the application be used in clinical settings?
 - Once cropped pathological images along with clinical details are received by the doctor, he will be entering them to derive the results
- Do you have any other requirements that you think you should add to the list?
 - Yes, the application should have an intuitive gui
 - Performance of the application should be reasonable
 - The behaviour of the application should be more stable, and should require minimal maintenance
 - Should be tested under all cases before deployment.