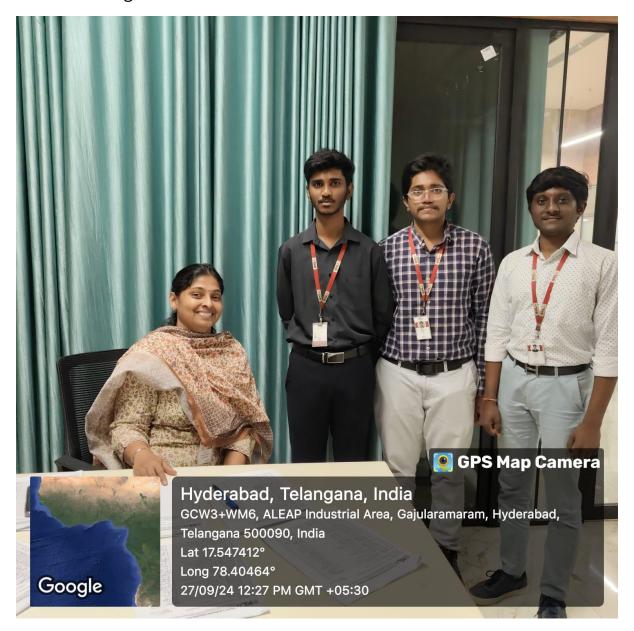
CLIENT REPORT

Client Meeting on 27/09/2024:-

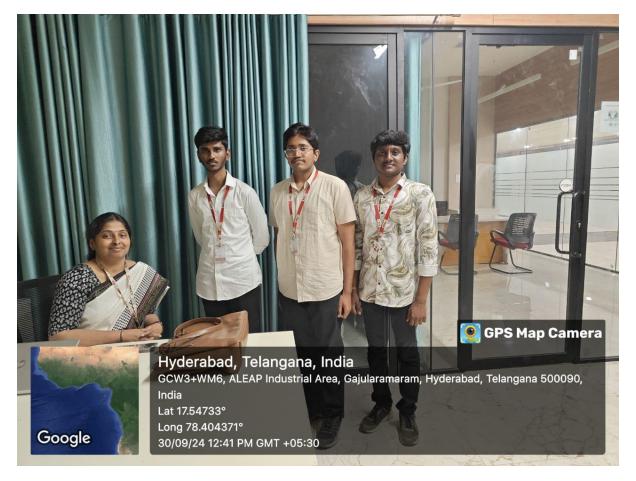


Q/A:-

- 1. What specific types of cancer cells are you looking to identify and classify?
 - o Answer: Breast cancer cells, lung cancer cells, and melanoma.
- 2. What type of medical images will we be using (e.g., histopathology slides, MRI, CT scans)?
 - Answer: Histopathology slides and CT scans.
- 3. Are there specific imaging modalities preferred for this project?
 - o Answer: We prefer histopathology slides due to their detail.

- 4. What is the desired accuracy level for the segmentation algorithm?
 - o Answer: We aim for at least 90% accuracy in segmentation.
- 5. Do you have a dataset available for training the algorithm? If so, what is its size and format?
 - Answer: Yes, we have a dataset of 5,000 annotated histopathology images in TIFF format.
- 6. How diverse is the dataset in terms of different cancer types and stages?
 - Answer: The dataset includes samples from early to late stages across various cancer types.
- 7. Are there any existing annotated datasets you would like us to use?
 - Answer: We would like to use the CAMELYON dataset as a supplementary resource.
- 8. What preprocessing steps do you envision are necessary for the images?
 - o Answer: Normalization, resizing, and augmentation to enhance the dataset.
- 9. Do you have specific software or tools in mind for developing the algorithm?
 - o Answer: We prefer using TensorFlow and Keras for model development.
- 10. What programming languages are preferred for this project?
 - o Answer: Python is the preferred language due to its extensive libraries.

Client Meeting on 30/09/2024:-



O/A:-

- 1. Are there specific image segmentation techniques you want to explore (e.g., U-Net, Mask R-CNN)?
 - Answer: We are interested in using U-Net for its effectiveness in biomedical image segmentation.
- 2. What are the computational resources available for training the model?
 - o *Answer:* We have access to cloud-based GPUs with a total of 4 GPUs available for training.
- 3. What is the timeline for the project?
 - o Answer: We expect the initial prototype to be ready in 6 months.
- 4. Are there any regulatory requirements we need to consider?
 - o Answer: Yes, we need to comply with HIPAA regulations for patient data privacy.
- 5. Who will be the primary users of the output from this algorithm?
 - o Answer: Pathologists and oncologists will be the primary users.
- 6. How will the results be integrated into the current workflow of your team?

o Answer: The results will be integrated into our existing imaging software.

7. What are the main challenges you've faced in similar projects in the past?

o Answer: Data imbalance and insufficient annotated data have been significant challenges.

8. How do you define success for this project?

o *Answer:* Successful implementation will lead to improved diagnostic accuracy and reduced processing time.

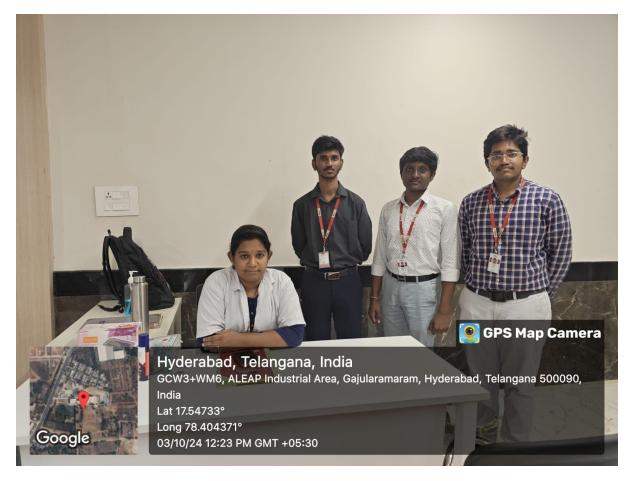
9. Will there be a need for real-time processing of images?

 Answer: Initially, real-time processing is not required; batch processing will suffice.

10. What is the expected volume of images to be processed on a daily or weekly basis?

o Answer: We anticipate processing around 200 images per day.

Client Meeting on 03/09/24:-



O/A:-

- 1. How do you plan to evaluate the performance of the algorithm?
 - o Answer: We will use cross-validation and a hold-out test set for evaluation.
- 2. Are there any specific metrics or benchmarks that you want to use for evaluation?
 - o Answer: We will track accuracy, precision, recall, and F1 score.
- 3. How important is explainability in the results provided by the algorithm?
 - Answer: Very important; we need to justify the algorithm's decisions to medical professionals.
- 4. Will the algorithm need to differentiate between benign and malignant cells?
 - o Answer: Yes, distinguishing between benign and malignant cells is crucial.
- 5. Do you have any collaboration with medical professionals for validation of results?
 - o Answer: Yes, we have a partnership with a local hospital for validation.
- 6. How frequently do you expect updates on the progress of the project?
 - o Answer: Bi-weekly updates will be sufficient.
- 7. Are there specific patient privacy concerns that we need to address?

o Answer: We need to ensure all data is anonymized and stored securely.

8. How do you envision the user interface for displaying the results?

o Answer: A web-based interface with visual overlays on the images for easy interpretation.

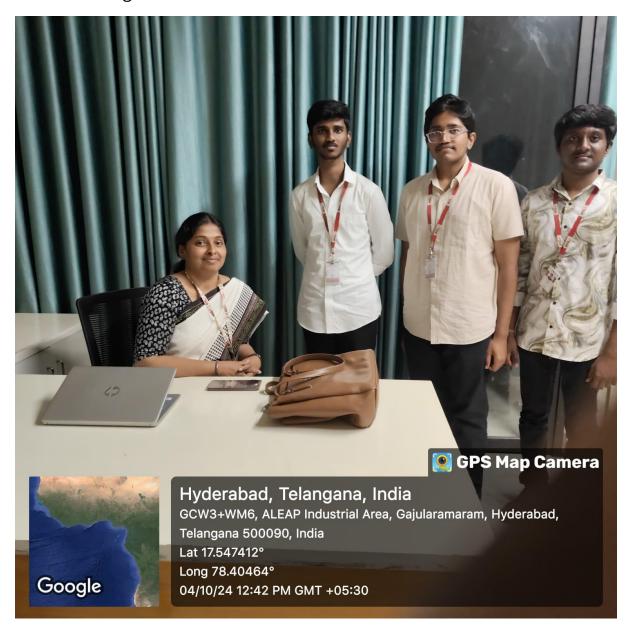
9. Are there any additional features you would like to include in the tool?

o Answer: A feedback mechanism for users to report issues with the algorithm.

10. What level of training will be required for end users?

o Answer: Basic training sessions for pathologists will be necessary.

Client Meeting on 04/09/2024:-



Q/A:-

- 1. How will you handle potential misclassifications by the algorithm?
 - o Answer: We will implement a review process for flagged cases by human experts.
- 2. Are there specific data storage or management solutions you prefer?
 - o *Answer:* We prefer using cloud storage solutions with strong encryption.
- 3. How will the algorithm be maintained and updated over time?
 - o Answer: Regular updates based on new data and user feedback will be planned.
- 4. What are your expectations regarding documentation and training materials?
 - o Answer: Comprehensive documentation and user manuals will be required.

5. Are there any existing workflows or systems we need to integrate with?

o Answer: Yes, integration with our current patient management system is essential.

6. Do you have a budget allocated for this project?

o Answer: Yes, the budget is approximately \$200,000.

7. How do you plan to handle feedback during the development process?

 Answer: We will have a structured feedback process involving regular meetings with stakeholders.

8. Will there be a need for post-processing of the segmentation results?

o Answer: Yes, we may need additional analysis for certain cases.

9. How will you address issues related to class imbalance in the dataset?

 Answer: We plan to use data augmentation techniques and possibly synthetic data generation.

10. What future enhancements or expansions do you foresee for this project?

o *Answer:* Future plans include expanding to other cancer types and incorporating additional diagnostic tools.