

Team Members:

- Goldy Malhotra
- Asmita Hari

Title: Cell Images for Detecting Malaria

Description:

This project will implement a deep learning neural network to segment images of malaria. The model will most likely be CNN based, possibly ResNet based to predict whether cells are infected with malaria from images of the cells.

Benefit:

Where malaria is not endemic anymore (such as in the United States), health-care providers may not be familiar with the disease. Clinicians seeing a malaria patient may forget to consider malaria among the potential diagnoses and not order the needed diagnostic tests. Laboratorians may lack experience with malaria and fail to detect parasites when examining blood smears under the microscope. The major benefit to this solution would be enabling the detection of malaria from skin images apart from other skin conditions that may impact the ability to detect malaria visually.

Dataset: <https://www.kaggle.com/iarunava/cell-images-for-detecting-malaria>

The dataset contains 2 folders: Infected, Uninfected And a total of 27,558 images.

Example Images:

Parasitized:	Normal
	