

Project Proposal Template

Interdiction:

A CNN is used mainly for image processing, classification, segmentation, and also for other autocorrelated data. Malaria is widespread disease, it's transmitted by infected mosquitoes. Early detection of malaria is essential for ensuring proper diagnosis and increasing chances of cure. CNN can be paramount to faster and reliable diagnoses.

Preparing data :

I'm going to use kaggle dataset and work with approximately 27k image of malaria cell (total of infected and uninfected) reference to who works on "Improving Malaria Parasite Detection from Red Blood Cell using Deep Convolutional Neural Networks" as we mentioned in Phase1. I will divide the images into 3 parts (70%train, 15%test and 15%validate)

Importing libraries:

I had imported number of most important libraries which we will describe in below:

- split-foldir to separate our dataset into (train, test and validate). Malaria Detection Using Convolutional Neural Network Chapter 5 42
- os provides functions for interacting with the operating system.
- tensorflow for machine learning, used with training and inference. from this library we imported: o input o conv2D o maxPooling2D o RelU o Flatten o Dense o Dropout o Models o layers also, we used Keras which is extension of tensorflow to develop and evaluate deep learning models and train the model with few lines.
- numpy used with arrays, linearity and matrix.
- matplotlib from this library we imported: o plot we used pyplot which is extension of matplotlib to create a plotting area, it helps to generate high quality line plots.
- tkinter The standard GUI library, provides a fast and easy way to create the interface.

from this library imported: o * o filedialog o font Malaria Detection Usin