



Project Proposal for the Hackathon

Objective:

To develop a machine learning model that analyzes a patient's blood cell image and determines if the patient is diagnosed with cancer. To also develop a website using which laboratories can upload the blood cell images of patients and get instant test results.

How are we doing this:

- We are currently collecting the blood cell images of cancer patients from hospitals and online resources.
- On the hackathon day, we will build our ML model using python, convolutional neural networks, and OpenCV.
- Then, we will use Tensorflow to train our model with the data collected.
- We will also build a website using Django, which labs can use to get the test results just by uploading a cell image.

Use Cases:

- Makes the process of testing for cancer seamless, time-saving, and economical.
- Can also use this project to detect various diseases like malaria and breast cancer by changing the data set and training the machine learning model on the new dataset.