

## **Forecasting Malaria Parasite Using Machine Learning**

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### **Abstract:**

Plasmodium parasite causes malaria which is an acute disease. Usually, a trained and specialized microscopist examines blood smear slide microscopic images for diagnosing the disease. This is a tedious and error prone method. We present in this paper a method that solves the issue of detecting malaria parasite automatically by performing an extensive analysis on the dataset consisting of about 27,588 images. A custom CNN model was designed and trained to correctly identify the blood cell images as either parasitized or un-infected.

### **Keywords:**

CNN, VGG19 Model, Deep Learning, Malaria, Transfer Learning, JavaScript.