

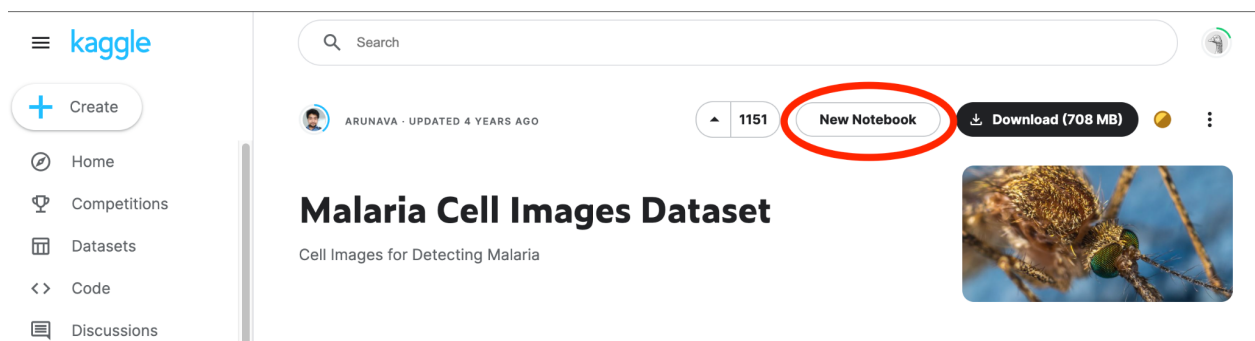
Prerequisite

Please make sure you have downloaded the malaria.ipynb file attached in the submission folder.

Getting Started

In this project, we use kaggle notebook to build, train and run the model in Python. Kaggle Notebooks is a cloud computational environment that enables reproducible and collaborative analysis.

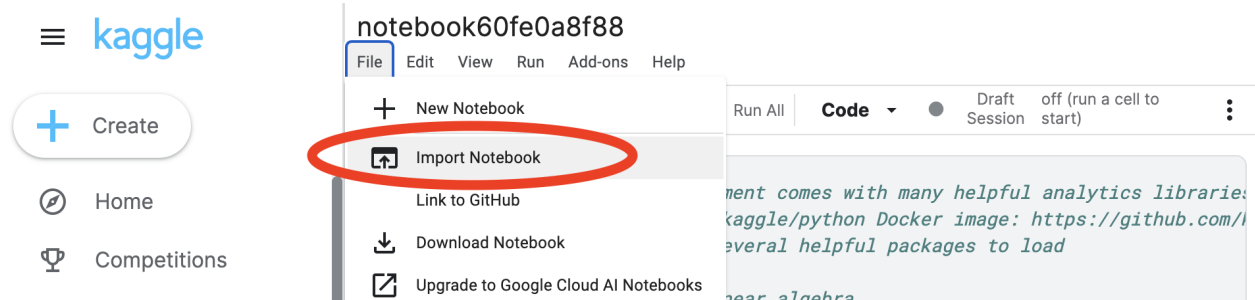
To get started, please head over to the [Malaria Cell Images Dataset | Kaggle](#) and click “New Notebook”



Using Kaggle Notebook Editor

The Notebook editor allows you to write and execute both traditional Scripts (for code-only files ideal for batch execution or Rmarkdown scripts) and Notebooks (for interactive code and markdown editor ideal for narrative analyses, visualizations, and sharing work).

In the menu, click “File” > “Import Notebook”.



Drag and drop or browse malaria.ipynb file from your device to the form given and click “Import”.

×

Import notebook

File

Link

GitHub

FILE

<> malaria.ipynb

×

Cancel

Import

Get Kaggle Notebook To Run

To run the notebook more efficiently and faster, consider changing the settings accelerator in the right sidebar from “None” to “GPU P100”.

notebook60fe0a8f88

Draft saved

File Edit View Run Add-ons Help

+ Run All Code Draft Session off (run a cell to start)

▶

```
!pip install timm
```

+ Code + Markdown

[2]:
I used the Kaggle Notebook for this project

This Python 3 environment comes with many helpful analytics libraries
It is defined by the kaggle/python Docker image: https://github.com/kaggle/docker-python
For example, here's several helpful packages to load

import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
import timm
from fastai.vision.all import *
Input data files are available in the read-only "../input/" directory
For example, running this (by clicking run or pressing Shift+Enter) will list the files in the input directory

import os
for dirname, _, filenames in os.walk('/kaggle/input'):
 for filename in filenames:
 print(os.path.join(dirname, filename))

You can write up to 20GB to the current directory (/kaggle/working/) but only 1GB to the current directory
You can also write temporary files to /kaggle/temp/, but they won't be saved outside of the current session

/kaggle/input/cell-images-for-detecting-malaria/cell_images/Uninfected/C203T

Share Save Version 0

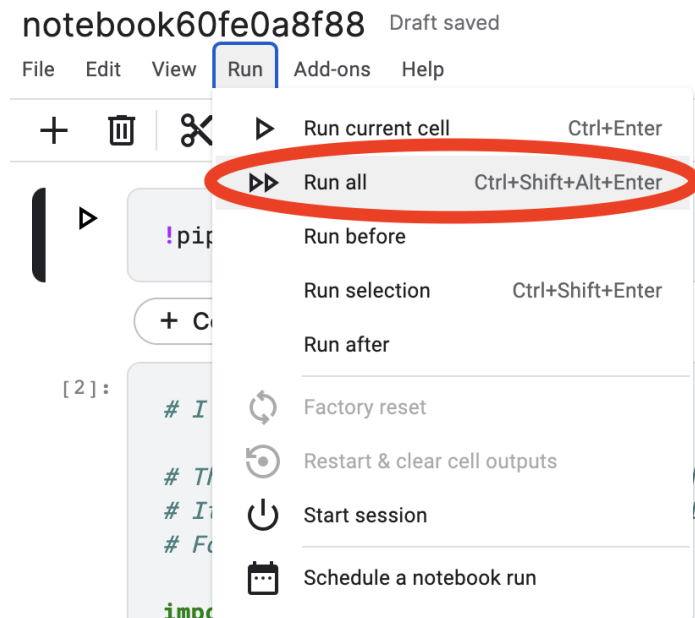
+ Add Data

Input
▶ cell-images-for-detecting-malaria

Output
▶ /kaggle/working

Settings
ACCELERATOR
None
None
GPU T4 x2
GPU P100
TPU v3-8
TPU VM v3-8

Click “Run All” Button under the menu to start running the codes. This might take some time to process.



Export model

Thus, after the notebook is finished running, you can find a file named “malaria.pkl” in the output section in the right sidebar.

