

The image shows a Visual Studio Code editor window with a Python file named `app.py` open. The code is a Flask web application that loads a pre-trained TensorFlow Keras model for blood cell classification. The code includes imports for Flask, numpy, cv2, and TensorFlow Keras models. It defines a Flask app, loads a model named "Blood Cell.h5", and sets class labels for eosinophil, lymphocyte, monocyte, and neutrophil.

```
1 from flask import Flask, request, render_template, redirect
2 import os
3 import numpy as np
4 import cv2
5 import base64
6 from tensorflow.keras.models import load_model
7 from tensorflow.keras.applications.mobilenet_v2 import preprocess_input
8
9 app = Flask(__name__)
10 model = load_model("Blood Cell.h5")
11
12 class_labels = ['eosinophil', 'lymphocyte', 'monocyte', 'neutrophil']
13
```

The terminal output shows the application running on `http://127.0.0.1:5000`. It includes warnings about the development server and the compiled metrics, as well as status messages from Werkzeug and TensorFlow.

```
TensorFlow with the appropriate compiler flags.
WARNING:absl:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.
* Serving Flask app 'app'
* Debug mode: on
INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
INFO:werkzeug:Press CTRL+C to quit
INFO:werkzeug: * Restarting with stat
2026-02-09 23:55:45.266790: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may
```

khittguntur.ac.in Mail

Smartinternz

BloodCellClassifier.ipynb - Colab

HematoVision-advanced-blood

HematoVision

127.0.0.1:5000

School

Welcome to the HematoVision

About Blood Cells

Blood cells are vital components of our body, playing essential roles in immunity, oxygen transport, and clotting. Understanding different types of blood cells is crucial for diagnosing various medical conditions.

Predict Blood Cell Type

Choose File

No file chosen

PREDICT

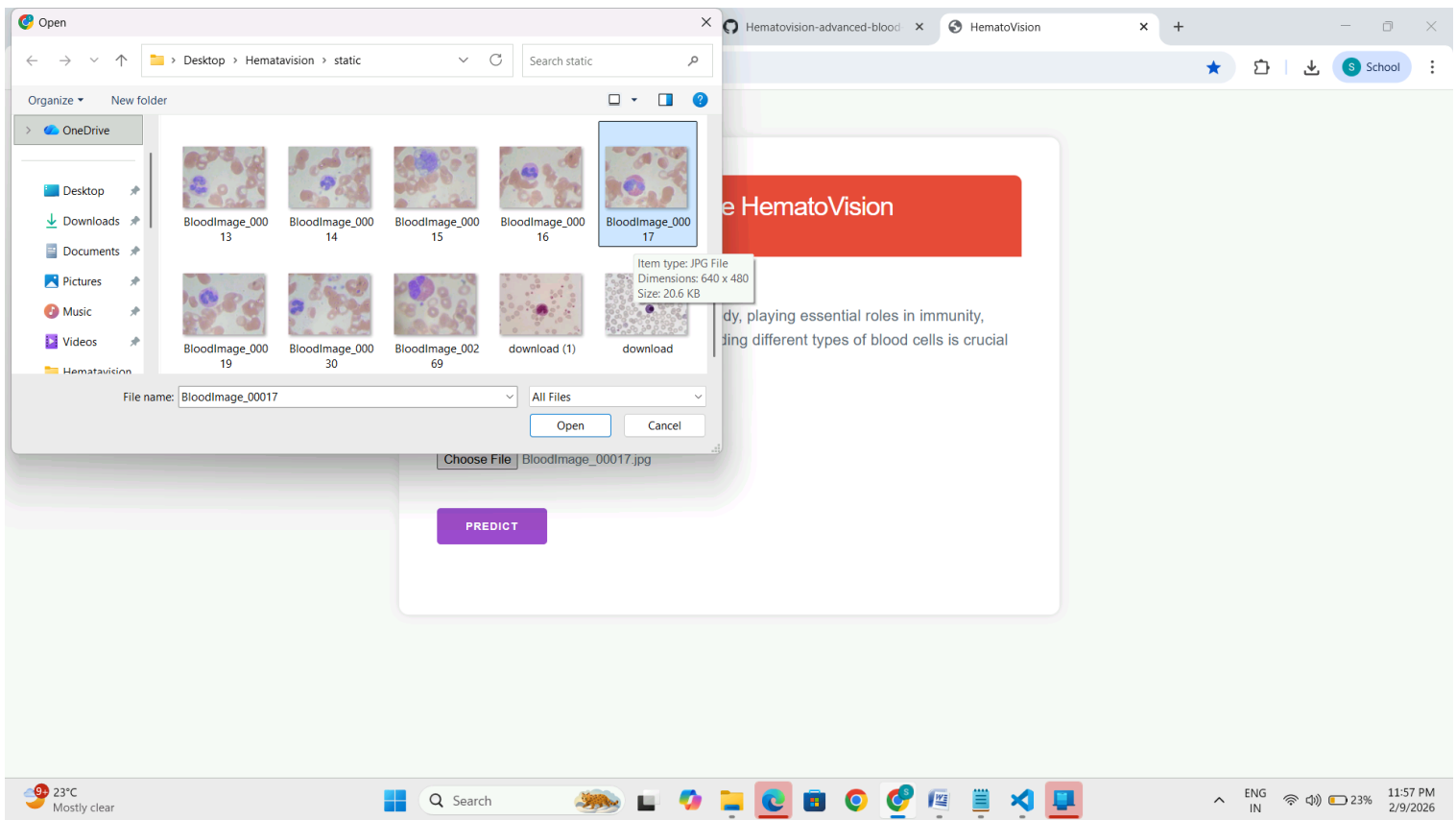
23°C Mostly clear

Search

ENG IN

23%

11:56 PM 2/9/2026



khittguntur.ac.in Mail

Smartinternz

BloodCellClassifier.ipynb - Colab

Hematovision-advanced-blood

HematoVision

127.0.0.1:5000

School

Welcome to the HematoVision

About Blood Cells

Blood cells are vital components of our body, playing essential roles in immunity, oxygen transport, and clotting. Understanding different types of blood cells is crucial for diagnosing various medical conditions.

Predict Blood Cell Type

Choose File

BloodImage_00017.jpg

PREDICT

23°C
Mostly clear

Search

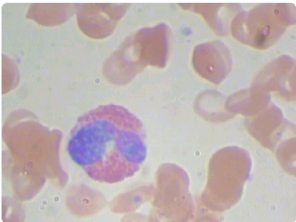
ENG
IN

23%

11:57 PM
2/9/2026

Prediction Result

Predicted Class: lymphocyte



UPLOAD ANOTHER IMAGE