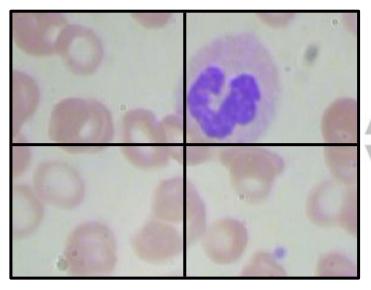


Analytics Vidhya

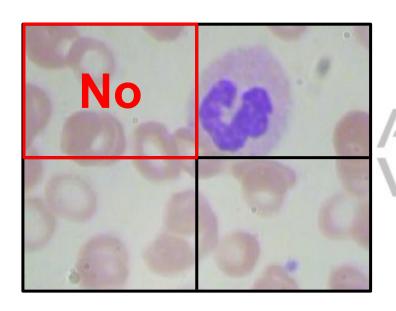




• Step 1: Divide image into patches

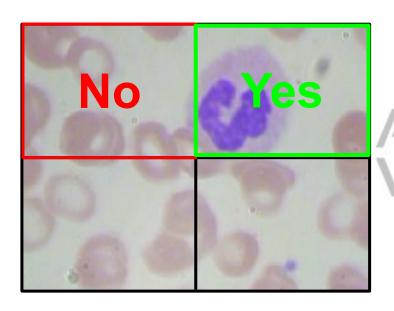
Analytics Vidhya





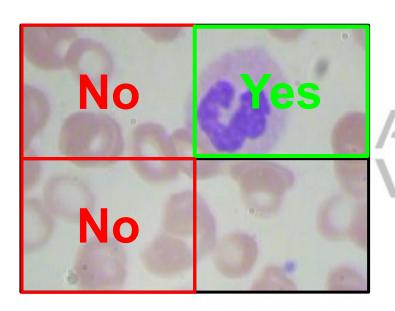
- **Step 1:** Divide image into patches
- Step 2: Classify each patch





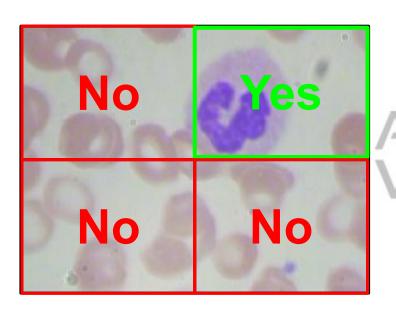
- **Step 1:** Divide image into patches
- Step 2: Classify each patch Analytics





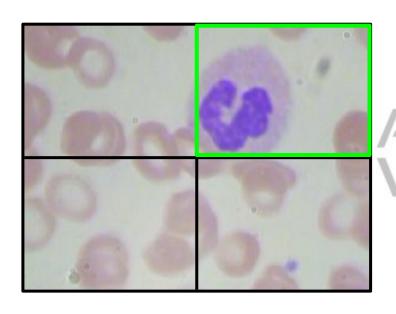
- **Step 1:** Divide image into patches
- Step 2: Classify each patch
- Vidhya





- **Step 1:** Divide image into patches
- Step 2: Classify each patch
 - /idhya

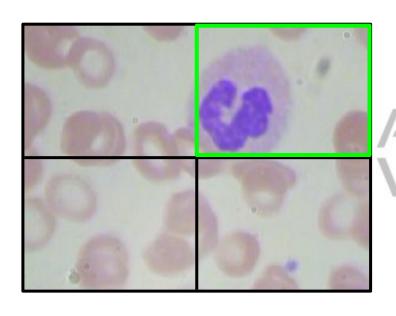




- **Step 1:** Divide image into patches
- **Step 2:** Classify each patch
- Step 3: Return Patch coordinates as

bounding box





- **Step 1:** Divide image into patches
- Step 2: Classify each patch
- **Step 3:** Return Patch coordinates as bounding box

Restructure the Train Data for Naive Approach





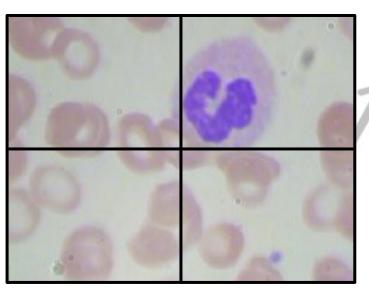




Analytics

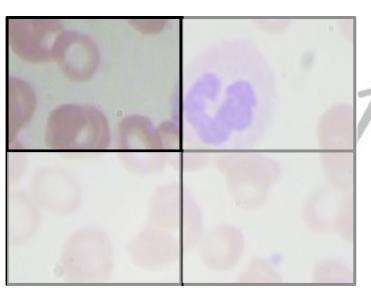
filename	xmin	xmax	ymin	ymax
1.jpg	310	530	50	240





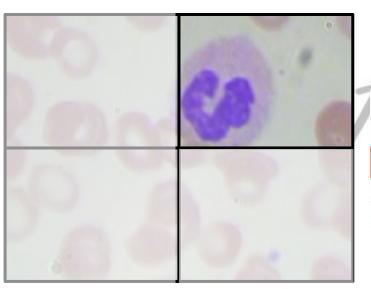
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0





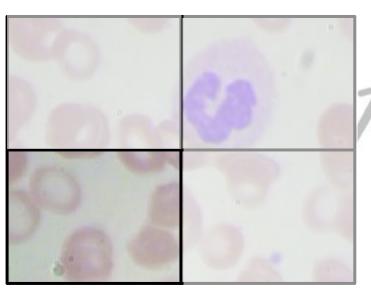
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0





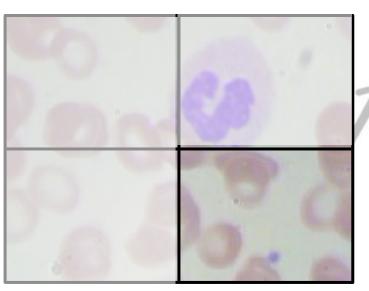
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0





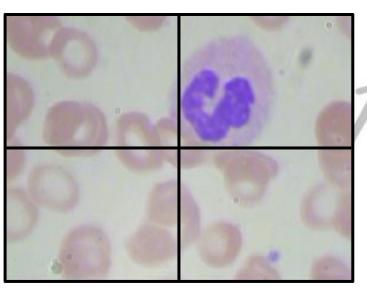
	filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
	1.jpg	1	0	320	0	240	0
	1.jpg	2	320	640	0	240	1
	1.jpg	3	0	320	240	480	0
1	1.jpg	4	320	640	240	480	0





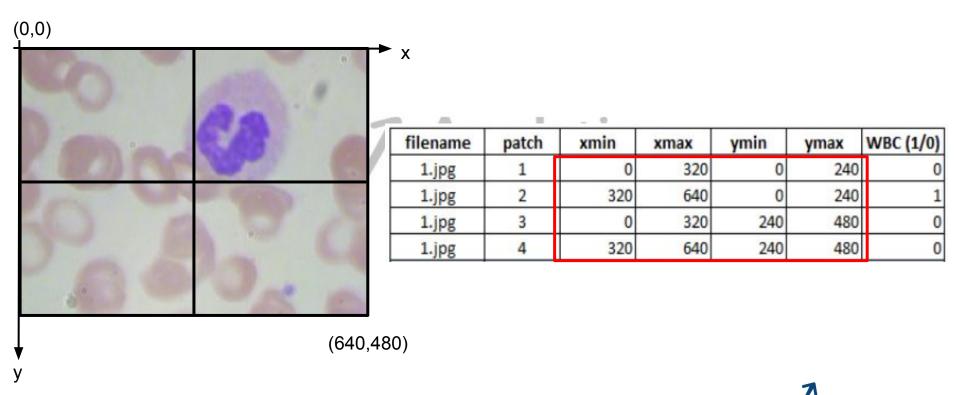
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0

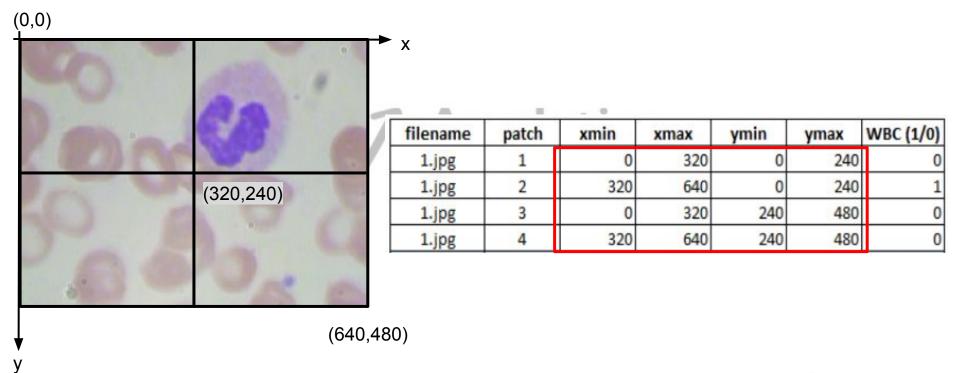




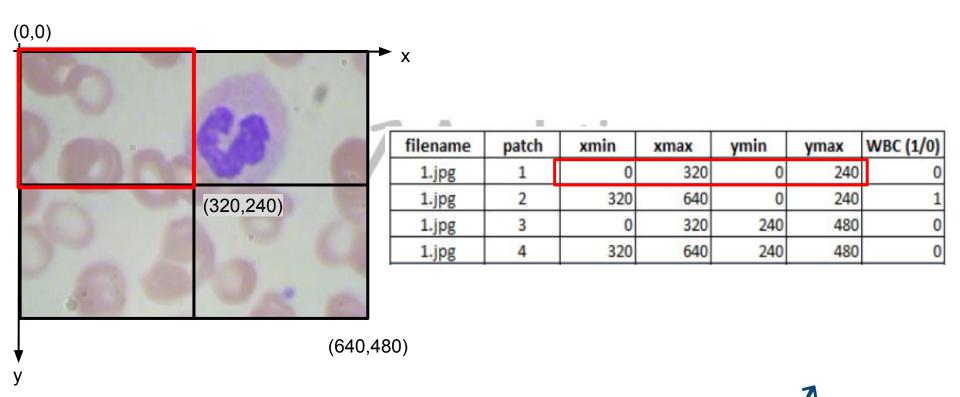
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0

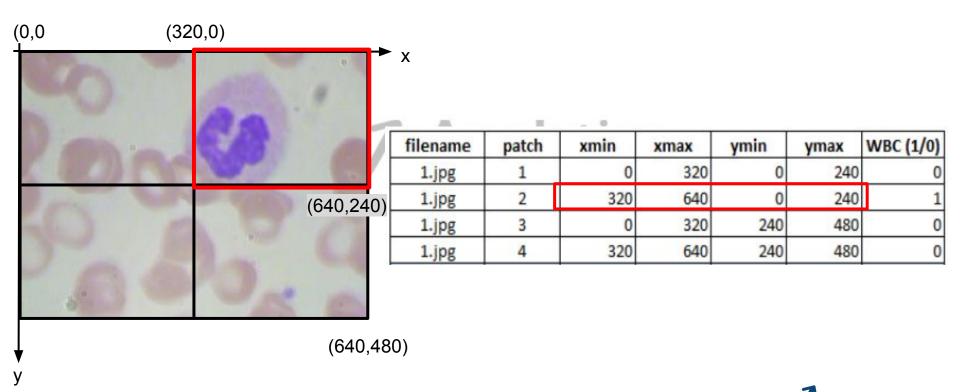


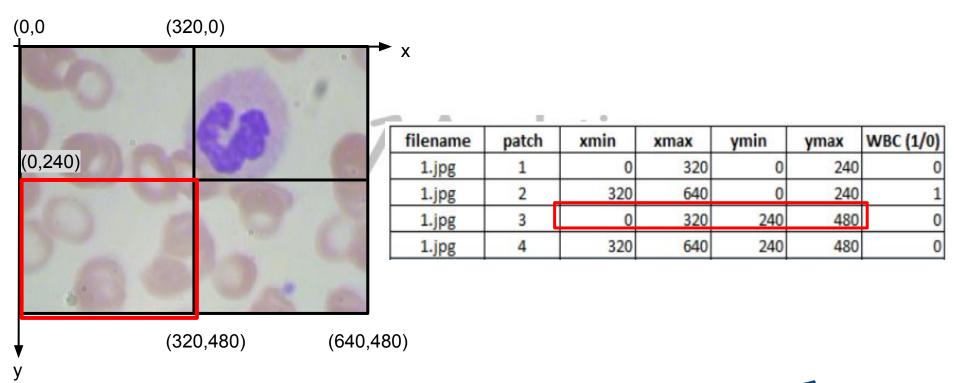




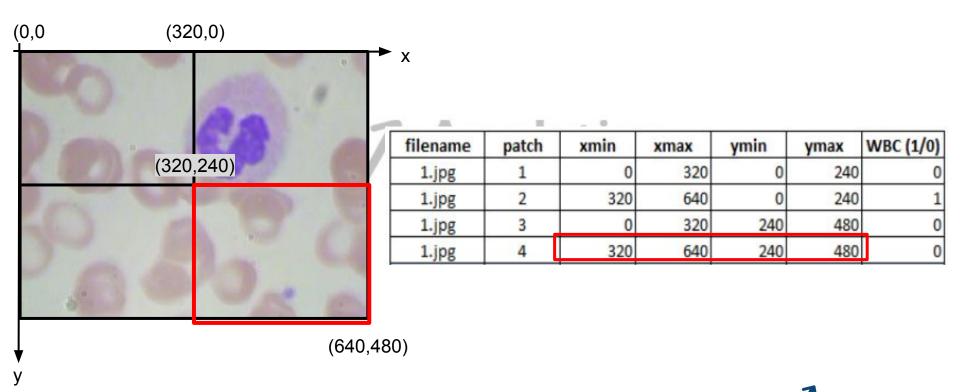


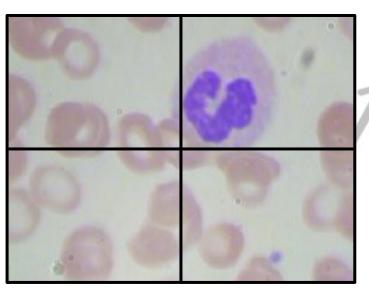












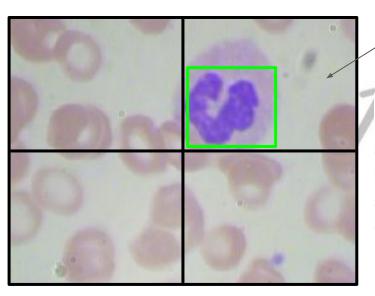
filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0







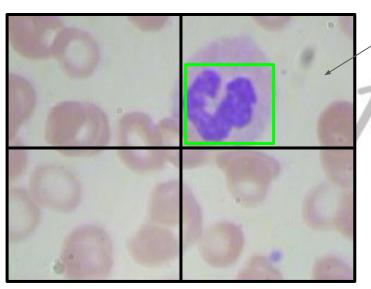
Calculating IoU



IOU > 0.5

filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0





IOU > 0.5

filename	patch	xmin	xmax	ymin	ymax	WBC (1/0)
1.jpg	1	0	320	0	240	0
1.jpg	2	320	640	0	240	1
1.jpg	3	0	320	240	480	0
1.jpg	4	320	640	240	480	0



Implementing Naive Approach

