



**DATA-DRIVEN HERITAGE  
PRESERVATION: MACHINE  
LEARNING APPLICATIONS IN  
MICROCLIMATE MONITORING –  
JOHOR BAHRU'S HERITAGE  
CONTEXT**

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HOME

TOTAL HERITAGE

12

TEMPERATURE

01

HUMIDITY

01

PRESSURE

01

WIND SPEED

02

HERITAGE 1



30 °C  
TEMPERATURE



45%  
HUMIDITY



1070 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 2



30 °C  
TEMPERATURE



75%  
HUMIDITY



870 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 3



30 °C  
TEMPERATURE



45%  
HUMIDITY



860 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 4



30 °C  
TEMPERATURE



45%  
HUMIDITY



830 hPa  
PRESSURE



100 km/h  
WIND SPEED

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HERITAGE 5



30 °C  
TEMPERATURE



45%  
HUMIDITY



870 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 6



30 °C  
TEMPERATURE



45%  
HUMIDITY



910 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 7



60 °C  
TEMPERATURE



45%  
HUMIDITY



870 hPa  
PRESSURE



120 km/h  
WIND SPEED

[MORE DETAILS >](#)

HERITAGE 8



30 °C  
TEMPERATURE



45%  
HUMIDITY



890 hPa  
PRESSURE



18 km/h  
WIND SPEED

[MORE DETAILS >](#)

# DATA-DRIVEN HERITAGE PRESERVATION: MACHINE LEARNING APPLICATIONS IN MICROCLIMATE MONITORING – JOHOR BAHRU'S HERITAGE CONTEXT

HERITAGE 1

TEMPERATURE  
30 °C

HUMIDITY  
45%

PRESSURE  
980 hPa

WIND SPEED  
18 km/h

AVERAGE PRESSURE  
890 hPa 980 hPa 1070 hPa 1160 hPa

AVERAGE HUMIDITY  
0 20 40 60 80 100

ALERT

PREDICTIVE MAINTENANCE

