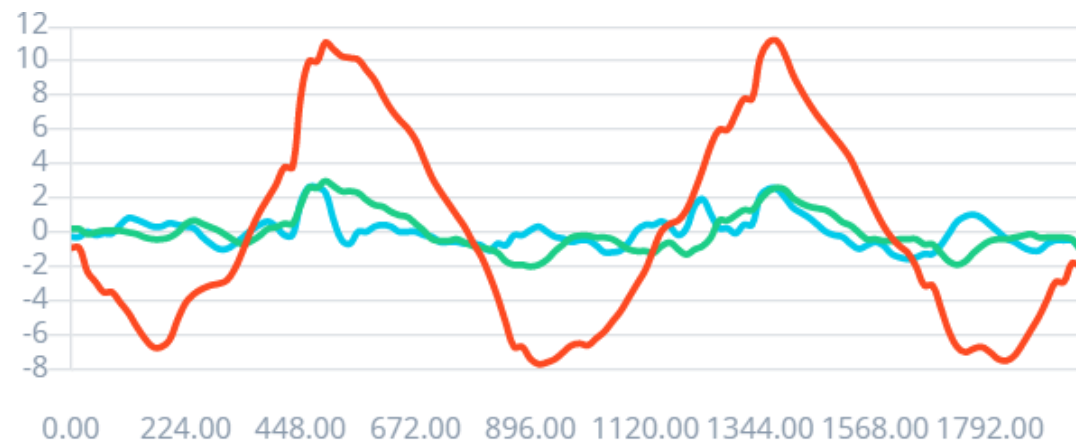
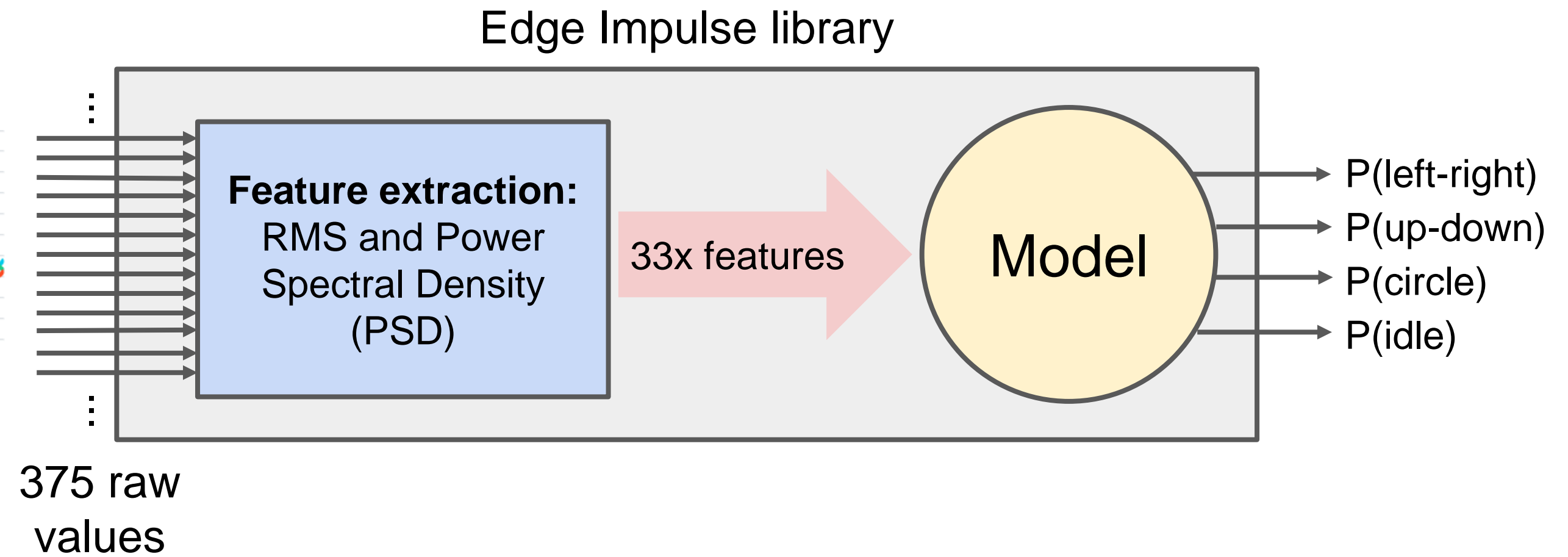


Sample accelerometer
for 2 seconds



62.5 Hz sampling for 2 seconds
with 3 axes = 375 values



$P(\text{left-right}) = 0.9143$

$P(\text{up-down}) = 0.0032$

$P(\text{circle}) = 0.0581$

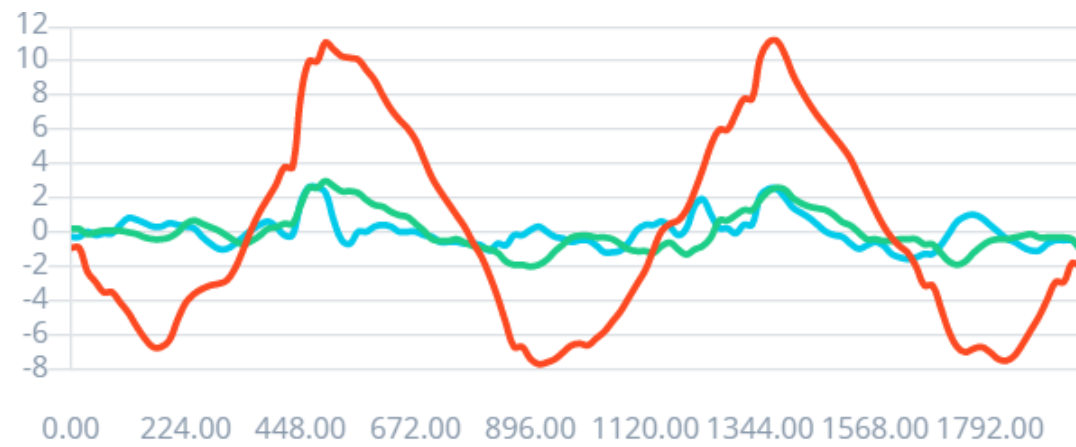
$P(\text{idle}) = 0.0244$

```
if (p_left_right > 0.5) {  
    // Do stuff  
}
```

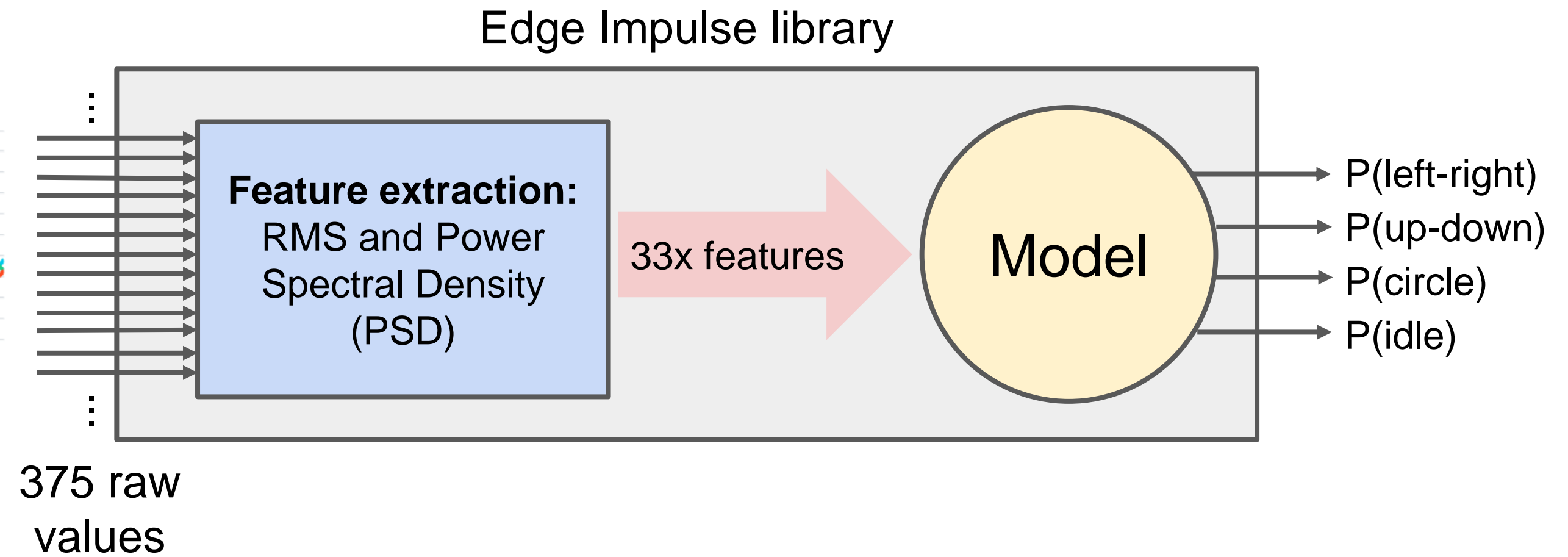
```
if (p_up_down > 0.5) {  
    // Do some things  
}
```

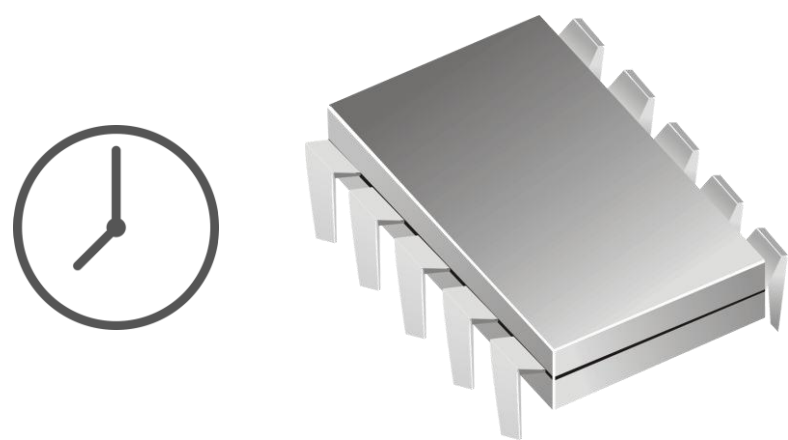
```
if (p_circle > 0.8) {  
    // And now for something completely different  
}
```

Sample accelerometer
for 2 seconds



62.5 Hz sampling for 2 seconds
with 3 axes = 375 values





Sample accelerometer every 16 ms (62.5 Hz)

- Timer interrupt
- Real-time operating system (RTOS) task
- Direct memory access (DMA)

