



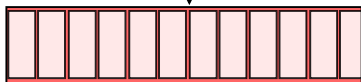
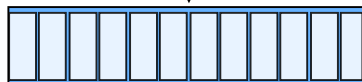
Search

CM

Inference

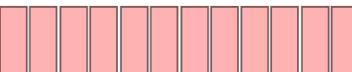
1

Divide the phase into time windows with fixed length



2

For each window, compute the eye-tracking features and assign a label corresponding to the parent phase



3

Using supervised learning, train an ML model to predict the label based on the used eye-tracking features

Eye-tracking features  
computed at the  
window level

ML Model

Label: Search  
or Inference

4

Test the performance of the  
model using different cross-  
validation methods

P01  
P02  
...  
Pn-1

Pn

Leave-one-  
participant-out

T01  
T02  
...  
Tn-1

Tn

Leave-one-task-  
out

P01T01  
P01T02  
...  
Pn-1Tm-1

PnTm

Leave-one-  
participant-and-  
task-out