



University
of Regina

Go far, *together.*

IFS DriverAlert

Decision Table Testing

Date: Jan. 30, 2025

Decision table for the detection alerts:

Rules	Condition Stubs			Action Stubs		
	C1. Closed eyes detected	C2. Yawn detected	C3. Turn detected	A1. Closed alert	A2. Yawn alert	A3. Turn alert
	Condition Entries (Rules)			Action Entries		
Rule 1	T	T	T	X	X	X
Rule 2	T	T	F	X	X	
Rule 3	T	F	T	X		X
Rule 4	T	F	F	X		
Rule 5	F	T	T		X	X
Rule 6	F	T	F		X	
Rule 7	F	F	T			X
Rule 8	F	F	F			

This decision table outlines the conditions and corresponding actions for the detection alerts in the system:

- Condition Stubs (C1, C2 and C3):
 - C1 indicates whether closed eyes are detected.
 - C2 indicates whether yawning is detected.
 - C3 indicates whether looking away is detected.
- Condition Entries (Rules):
 - Rule 1 to 8: indicates which of the conditions is true (detected).
- Action Stubs (A1, A2 and A3):
 - A1 triggers an alert for closed eyes.
 - A2 triggers an alert for yawning.
 - A3 triggers an alert for looking away.
- Action Entries:
 - The "X" indicates which actions are triggered for each rule.
 - For example, in Rule 1, all actions (A1, A2 and A3) are triggered because three conditions are true.