Flowchart: AI decision for route change

This flowchart outlines how an AI makes a decision about a new route based on an accident occurring further ahead of a driver’s journey.

**Start**

**Step1. Receive traffic data**

Is there an accident reported ahead?

* Yes: Proceed to Step 2
* No: Continue on current route

**Step 2. Evaluate traffic conditions**

* Is the accident causing significant traffic congestion?
* Yes: Proceed to Step 3
* No: Continue on current route

**Step 3. Check alternative routes**

* Are there alternative routes available?
* Yes: Proceed to Step 4
* No: Continue monitoring current route

**Step 4. Calculate optimal route**

* Analyse real-time traffic data and historical patterns
* Consider factors: road closures, construction sites and traffic flow
* Determine the most efficient alternative route
* Update route recommendation

**Step 5. Communicate route change**

* Notify user of new route recommendation
* Provide estimated arrival time based on new route
* Continue to monitor traffic conditions

**End**