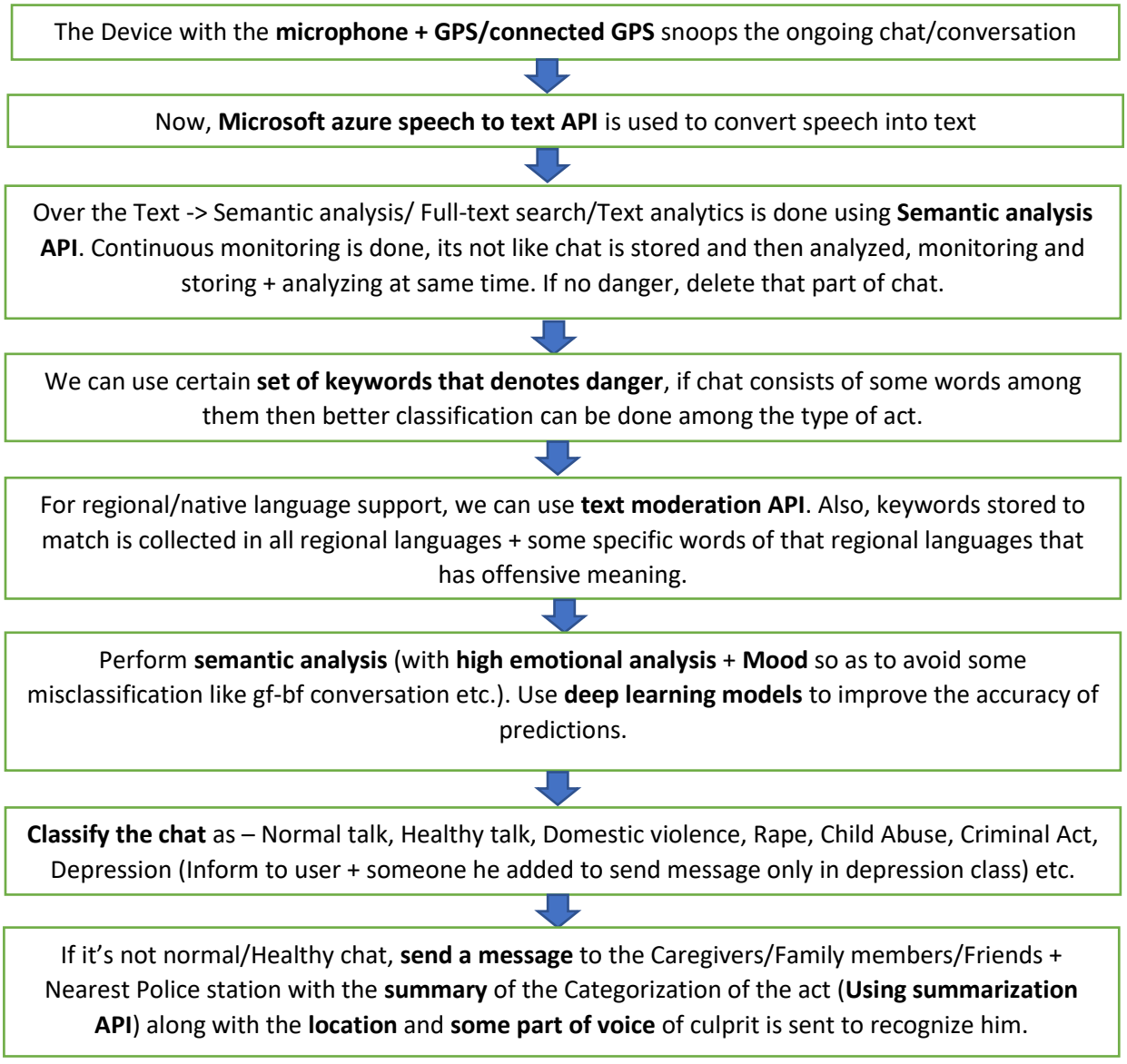
Solution

24*7 shield uses Microsoft azure and it converts speech to text (Support for all regional languages) for semantic analysis thus it needs a device with microphone to capture voice. It continuously monitors the conversation and if finds anything offensive thus informs the caregivers.

Sometimes, the chat between husband-wife or girlfriend-boyfriend seems offensive, in such situation a better classification based on emotion detection is used. Since chat between them can even be a case of sexual assault as in domestic violence or pleasing moment talk so proper classification is important.



In early stages, some training is needed but as the system gains experience its accuracy will become quite high.

Thus, early detection of ongoing incident is possible and losses can be prevented. Thus , we need only a device with microphone and GPS, even the device with the facility of GPS connected will work. Rest, we need only microsoft azure API's, that's it, we are done !!

Many other sensors can be used as add on to detect some new functionalities but this is the cheapest and optimal device possible exploiting most of the features and affordable.