**Conclusion**

In this paper a method to detect driver drowsiness is proposed as a part of Advance Driver Monitoring System. With adaptation of machine learning and working with block in hierarchy, this method has reached its best accuracy which is 95\%. The component or type of layers used in the inceptionV3 and proposed neural network are also introduced in this paper.

The external and internal behavior and the characteristic of each layer have been discussed to show how the proposed method works. A proper method used for training the proposed model is also analyzed where the internal result of training process and inference process are explained and visualized.

Although the proposed strategy is not cutting edge, it has produced some great outcomes. Despite the model's 95\% accuracy, several enhancements could be done, such as reducing the complexity of the model especially on the chosen model (in this case inceptionV3) so that the model can turn on low cost system without jeopardizing the accuracy.

Therefore, putting these concepts into practice will be the first step. Following the successful completion of these processes, additional improvements can be made while the system is being tested in a real-world environment.