**Model 1:** [**CrashCatcher**](https://github.com/rwk506/CrashCatcher)  **one of the two prev. Models on accident detection**

**Grayscale images passed to a timedistributed LSTM and Dense NN**

**Analysis:**

* **Accuracy shown in the website is 80%.**
* **Accuracy on the 200 collected videos 60%**
* **But the collected videos are a lot better than those shown in the website. Except that not all the collected videos are 4 seconds long.**
* **Removed the Guardrail videos suspecting the trained model has not seen similar dynamics. And shortened non crash/negative videos to 80 to maintain balance**
* **Accuracy improved to little over 70% (~71%) BUT NOT 80% as it should.**
* **Trained a model with SAME architecture of the Crash Catcher with the collected videos over the pre-trained weights.**
* **Saved the model only if there was a improvement in the accuracy over the validation set used while training.**
* **NO real improvement in the accuracy.**

**Conclusions:**

**Not sure if the claimed 80% accuracy was achieved using this model. As the author mentioned training video frames over Inception Net and discarding it in the final product.**

**As training from SCRATCH over the collected videos gave no more than a RANDOM prediction,**

**-the dataset should be increased and be confined to 4 SECONDS (However preparing a new model which can take variable length videos)**

**-And is evident that a new model using ConvNets is very much necessary.**