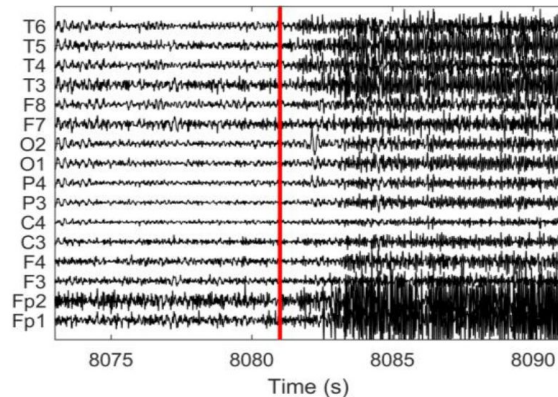


# Seizure Detection

DANGER	PRECAUTIONS
DROWNING	<ul style="list-style-type: none"><li>~ PLASTIC SHOWER CHAIR</li><li>~ SHOWERS INSTEAD of BATHS</li></ul> 
BURNS	<ul style="list-style-type: none"><li>~ COOK on BACK BURNER of STOVE</li><li>~ ENSURE CUPS of HOT LIQUIDS HAVE LIDS</li><li>~ AVOID SMOKING</li></ul> 
CLIMBING STAIRS & LADDERS	<ul style="list-style-type: none"><li>~ CARPETING</li><li>~ COVER SHARP CORNERS</li><li>~ WEAR PROTECTIVE HEADGEAR</li></ul> 
DRIVING	<ul style="list-style-type: none"><li>~ DRIVING PRECAUTIONS</li></ul>



After tuning the hyperparameters for a week, you get a 0.5% increase in accuracy.

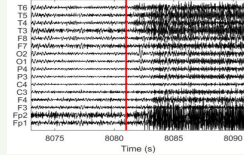


TensorFlow Lite

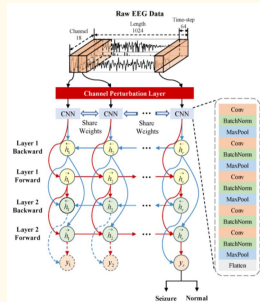
# Seizure Detection

## Background & Motivation

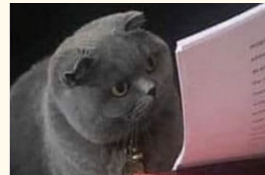
DANGER	PRECAUTIONS
DROWNING	<ul style="list-style-type: none"> <li>~ PLASTIC SHOWER CHAIR</li> <li>~ SHOWERS INSTEAD of BATHS</li> </ul>
BURNS	<ul style="list-style-type: none"> <li>~ COOK on BACK BURNER of STOVE</li> <li>~ EXPOSURE CUPS of HOT LIQUIDS</li> <li>~ HAVE LIDS</li> <li>~ AVOID SMOKING</li> </ul>
CLIMBING STAIRS & LADDERS	<ul style="list-style-type: none"> <li>~ CARPETING</li> <li>~ COVER SHARP CORNERS</li> <li>~ WEAR PROTECTIVE HEADGEAR</li> </ul>
DRIVING	~ DRIVING PRECAUTIONS



## Details & Learning moments



- Literature review
- Literature review
- Literature review



## Step 1: Preprocessing

Filter

Eye-blinking threshold

Other Artifacts removal

? FFT to spectrum?

ICA? Sparse coding?

## Step 2: Model

Model development

Channel randomized

CNN + LSTM

Further modification

optimize the size & latency

probe

Float >> int



## Step 3

Draw Figures

Write paper

Find a conference and submit it! ✈️

## Step 4: Model implementation

Collaborate with device division

## Step 5: Seizure prediction

