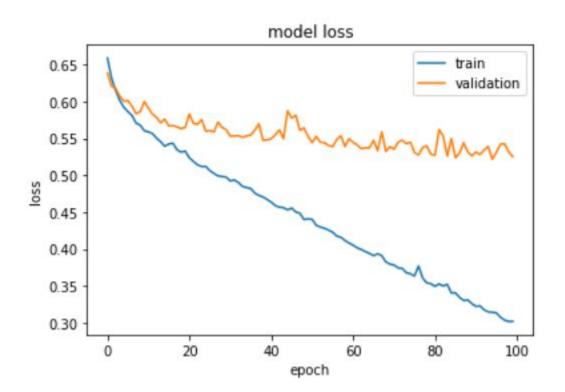
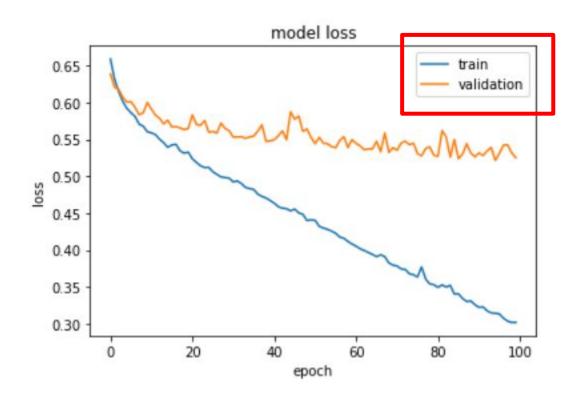
Improving your Neural Network

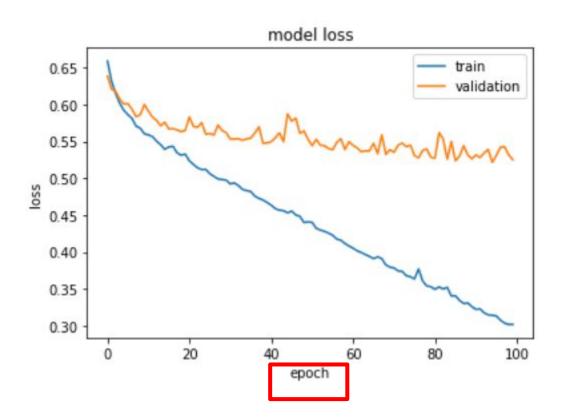




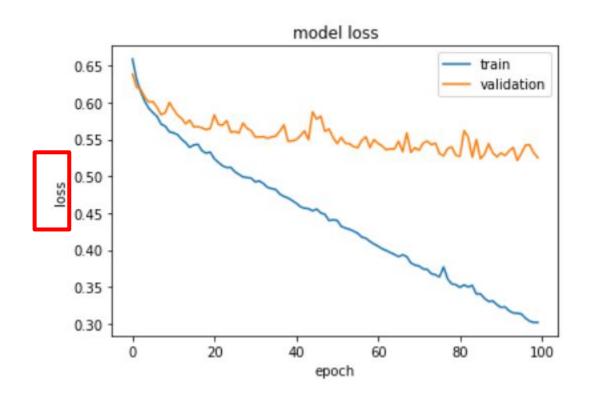




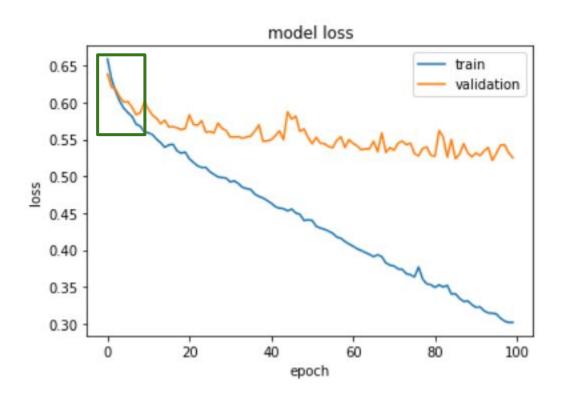






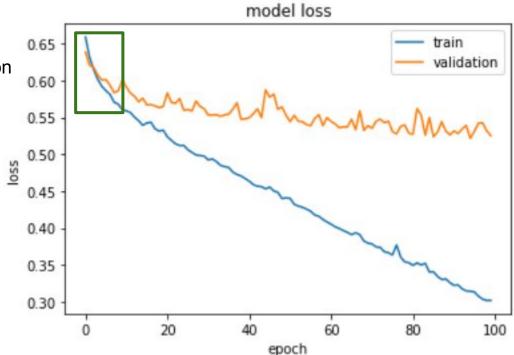




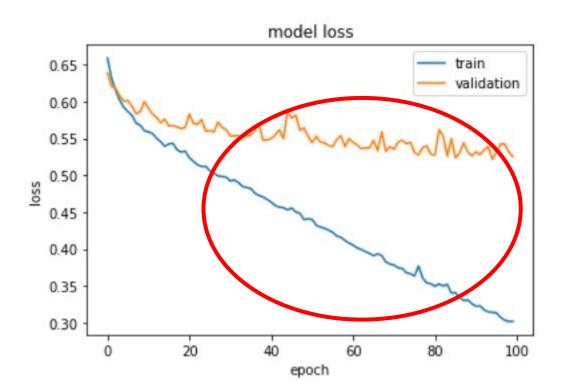




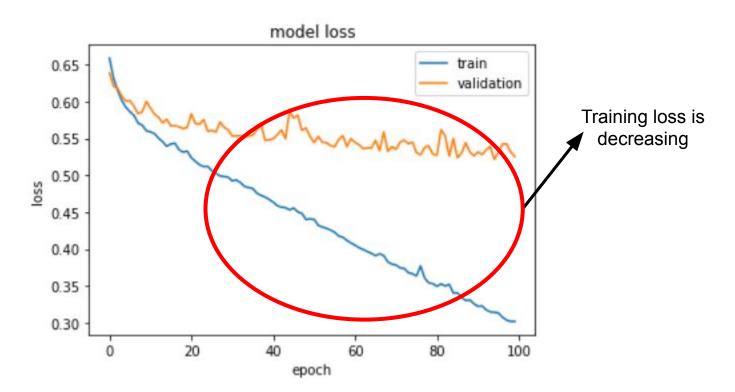
Both training and validation loss is decreasing



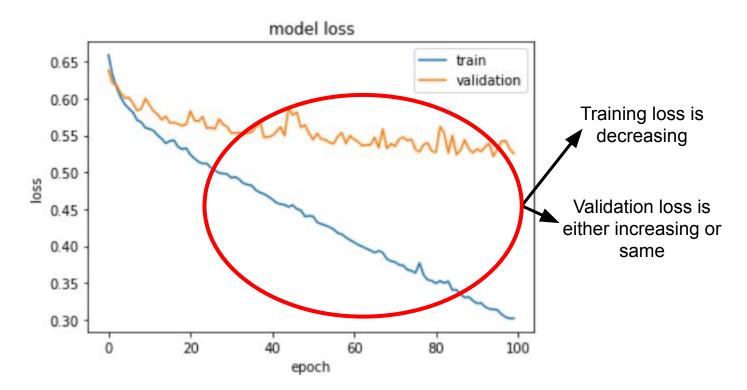






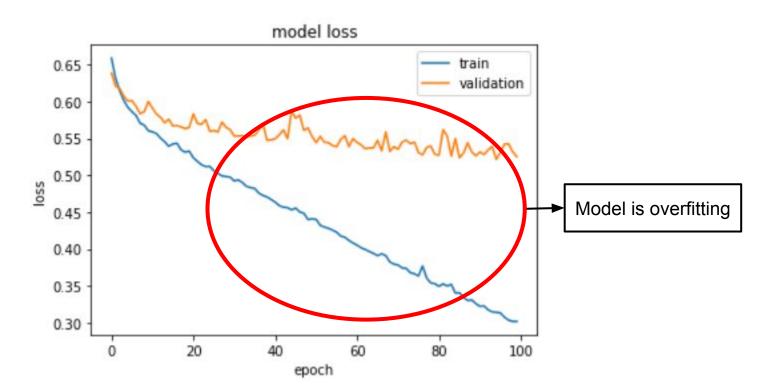






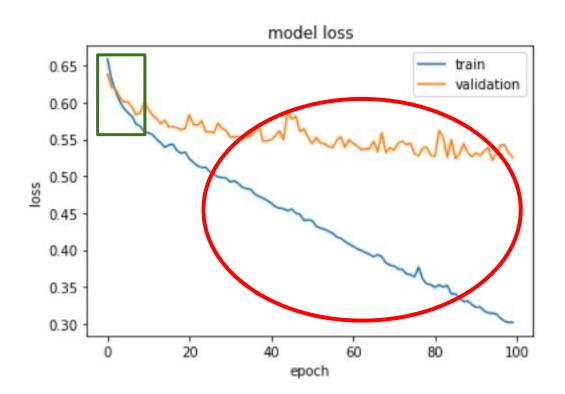


Overfitting



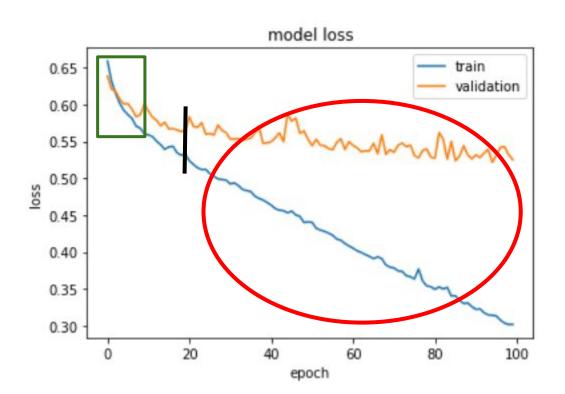


Overfitting

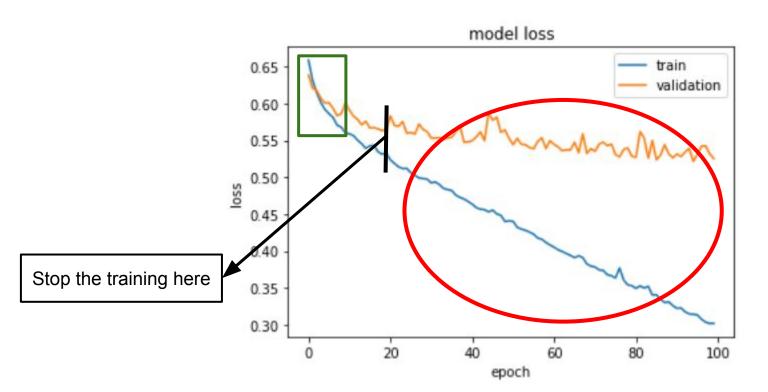




Overfitting



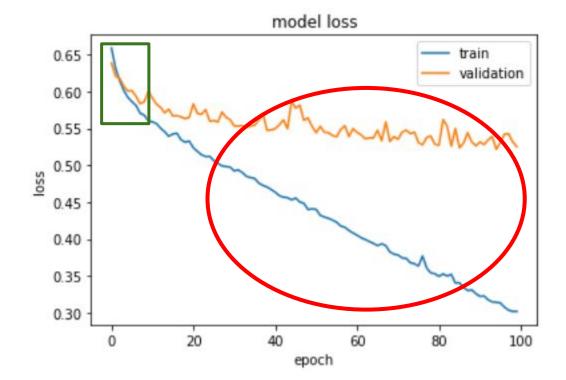






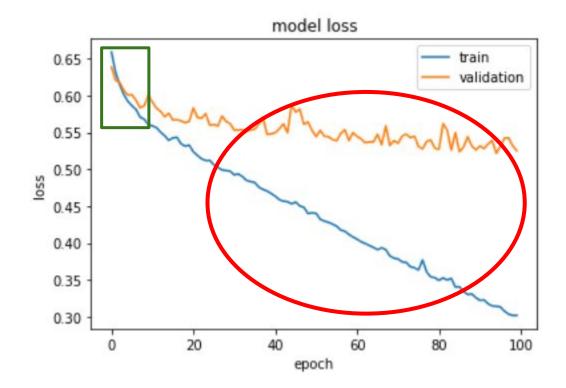
Thank You!

Keep track of a metric:



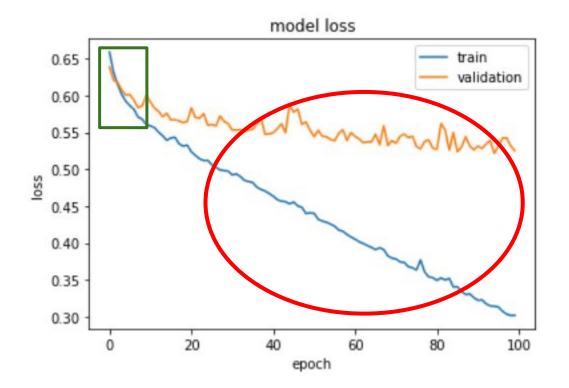


- Keep track of a metric:
 - validation loss



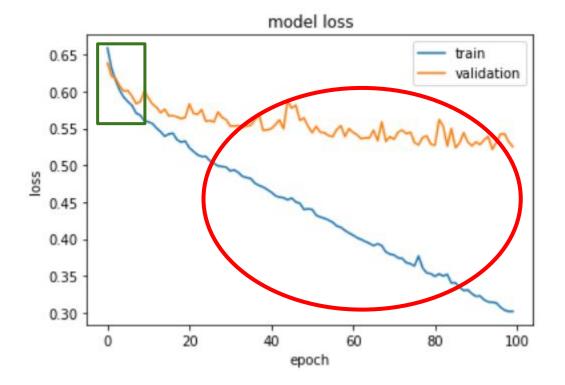


- Keep track of a metric:
 - validation loss or
 - validation accuracy



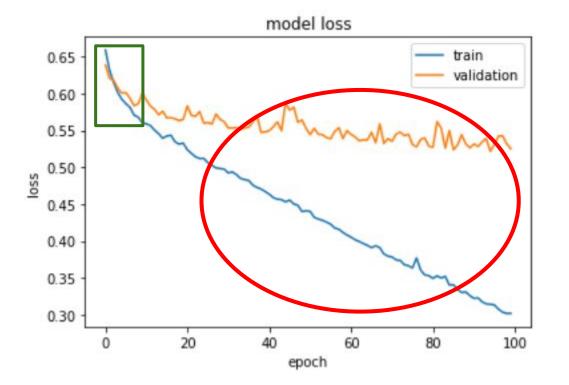


- Keep track of a metric:
 - validation loss or
 - validation accuracy
- Threshold





- Keep track of a metric:
 - validation loss or
 - validation accuracy
- Threshold
- Number of epochs

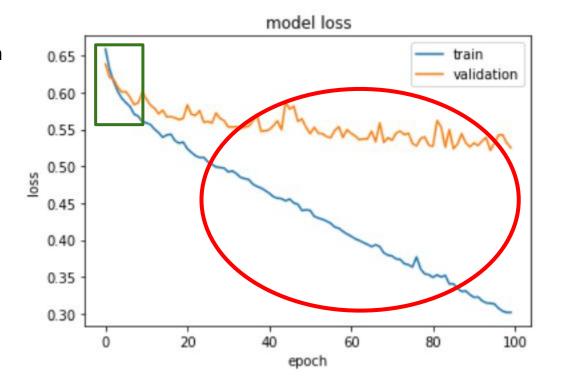




 Metric: validation loss

• Threshold: 0.01

Number of epochs: 5





Steps to solve emergency vs non-emergency vehicle classification problem

- Loading the dataset
- 2. Pre-processing the data
- 3. Creating training and validation set
- 4. Defining the model architecture
- 5. Compiling the model
- 6. Training the model
- 7. Evaluating model performance



Steps to solve emergency vs non-emergency vehicle classification problem using Early Stopping

- 1. Loading the dataset
- 2. Pre-processing the data
- 3. Creating training and validation set
- 4. Defining the model architecture
- 5. Compiling the model
- 6. Setting up Early Stopping
- 7. Training the model using Early Stopping
- 8. Evaluating model performance

