**Voice Activation/Speech Classification Algorithms**

1. **Introduction**
2. **Dataset**
3. **Data Augmentation**
4. **Preprocessing**
5. **Algorithms / Classifiers**
6. **Results**
7. **Conclusion**

**Introduction**

Problem Definition:

Bla bla bla …

**Dataset**

Kaggle + "call 911"

"Tensorflow Speech Recognition Challenge"

All of them with sample rate 16kHz

**Data Augmentation**

1. Adding white noise (with different SNRs) v
2. Adding background noise (with different SNRs) x
3. Shifting right/left (Randomly) x

**Preprocessing:**

Maybe …

**Algorithm Approaches / Classifiers:**

1. Intro
2. Approaches:

* **1\_D CNN Classifier**
* **Image classification with spectrogram**
* **Wavelet in Audio & Computer Vision**

**Results:**

Accuracy, run time, model size …

**Conclusion**

Bla bla bla