**Hiring Challenge**

The objective of the challenge is to code a Voice Activity Detector (VAD) using neural networks.

We expect you to do the following:

* You can use some [data we prepared](https://drive.google.com/file/d/1Ho1jVZ9xIApNzQI5PxJJ05nmOwueG-Mu/view?usp=sharinghttps://drive.google.com/file/d/1Ho1jVZ9xIApNzQI5PxJJ05nmOwueG-Mu/view?usp=sharing) with labels for speech
* You can also come up with your data using existing speech dataset and noise datasets (some can be found on [http://openslr.org](http://openslr.org/))
* Use TensorFlow or PyTorch
* Use tooling and visualizations to help you make sense of the data, clean the data, show the performances, or show the inner workings of the algorithm
* You can add the common VAD modifications: smoothing, minimum speech time, hangover scheme

We are asking you to rely on Deep Learning to tackle this problem. Use any methods and tools you like, any external dataset, library, or API: the more creativity & ambition, the better. For your own sake, and to preserve equity among candidates, we just ask you not to spend a dime on the problem.

Feel free to go beyond just solving the challenge itself. This is your opportunity to shine, showcase your craft and way of thinking, and ultimately outperform other candidates!

We expect to receive from you:

* A document describing your work in the form of a scientific report. The report could contain for example performance metrics, design choices, implementation details, data analysis, limitations of your approach, what you could have done with more time, etc.
* Access to your codebase (in whatever form you prefer)

We expect you to get back to us within a week, so let us know if you need more time.

Good luck!

PS: Please do not share this challenge, your code or any associated data as it may be used with other candidates