

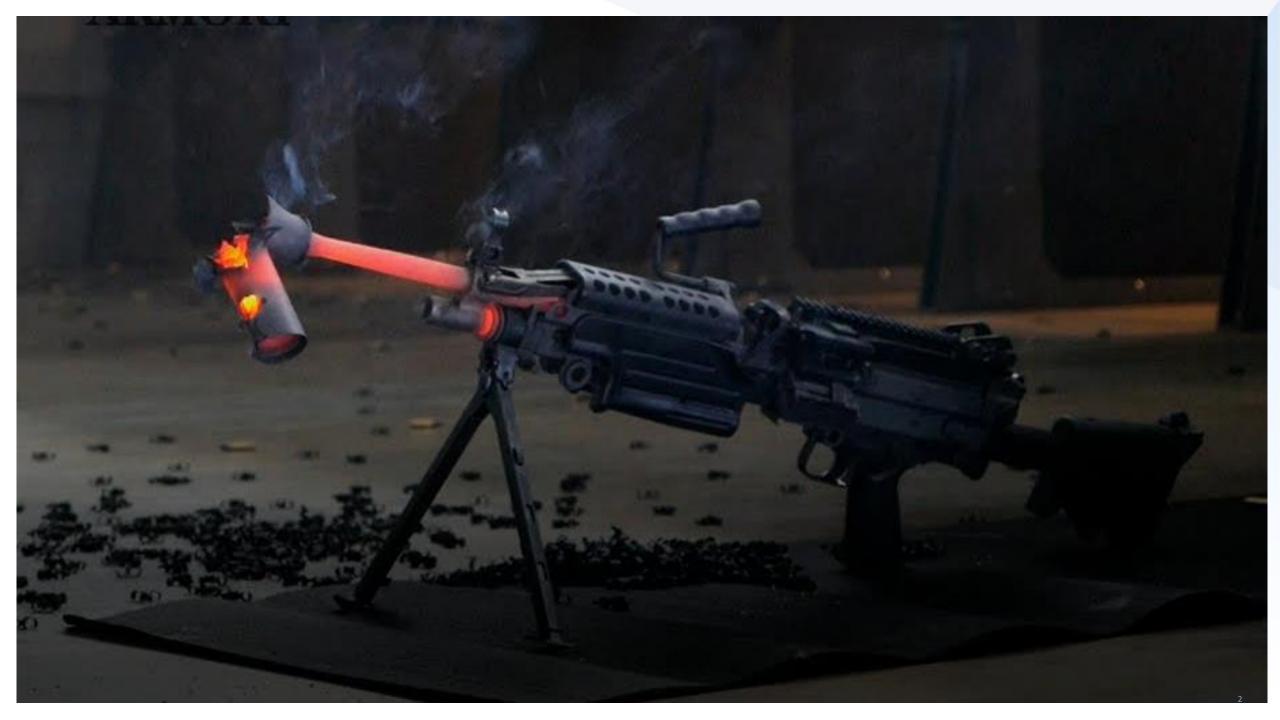
# **EDGAR**

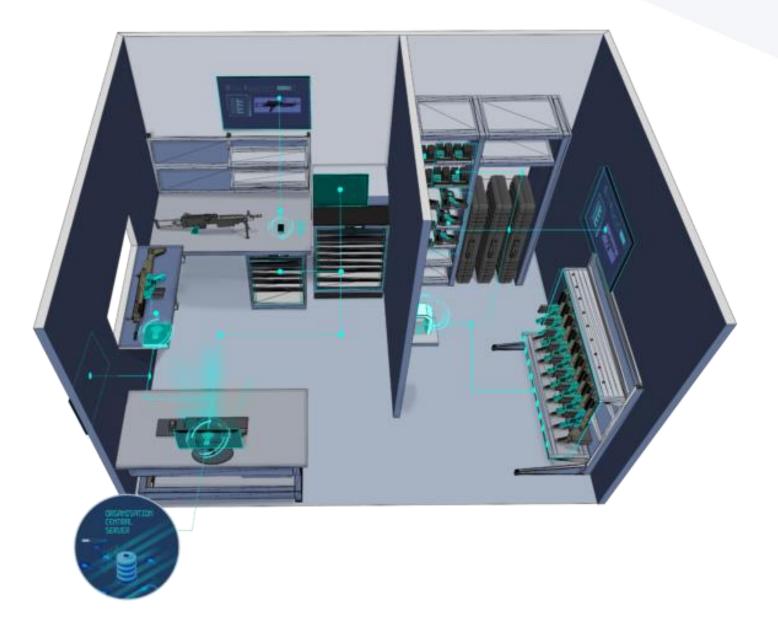
Embedded Detection of Gunshots by AI in Real-time

23/09/2020

Nathan Morsa



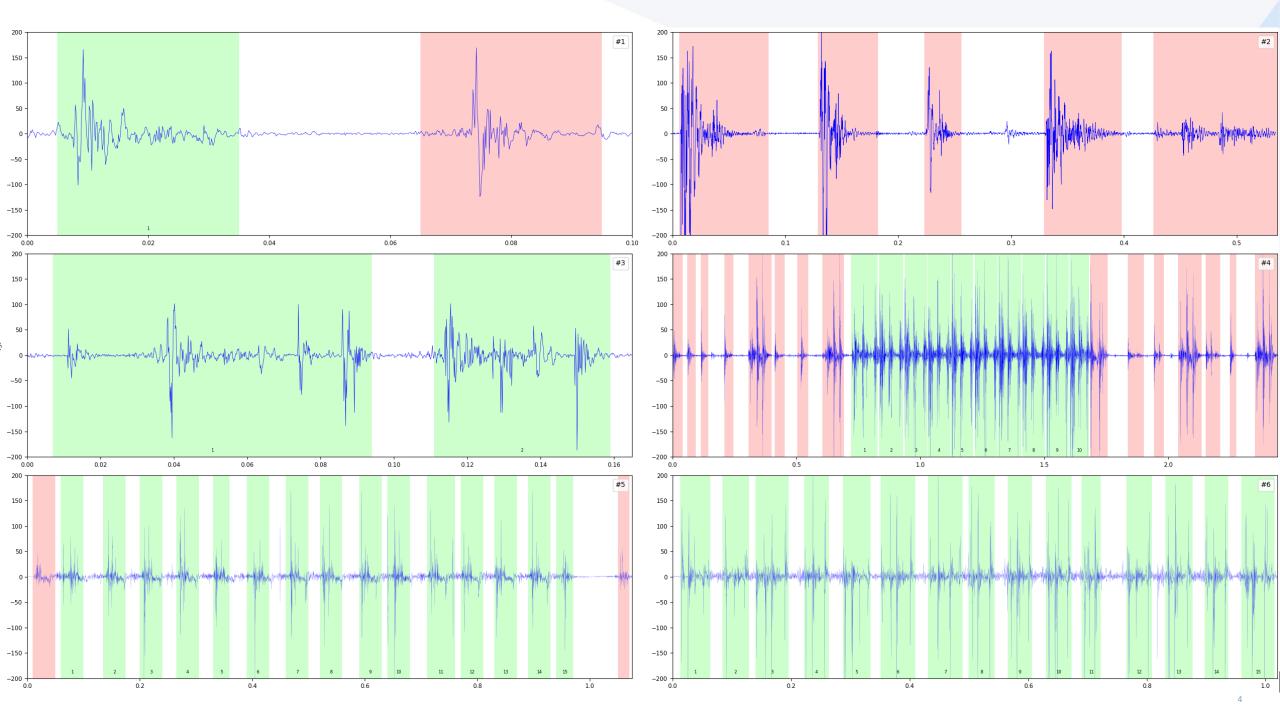




## **SMART ARMORY**







## **WEAK LABELS**

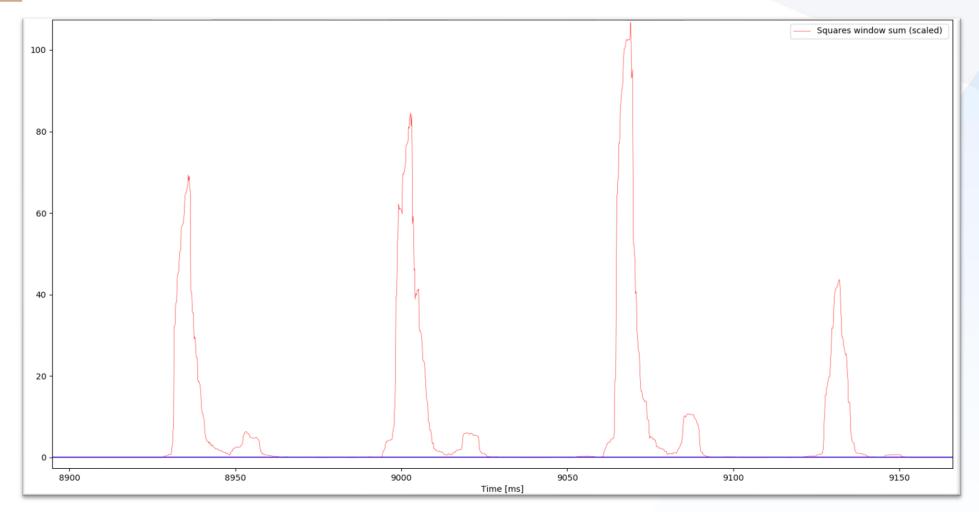








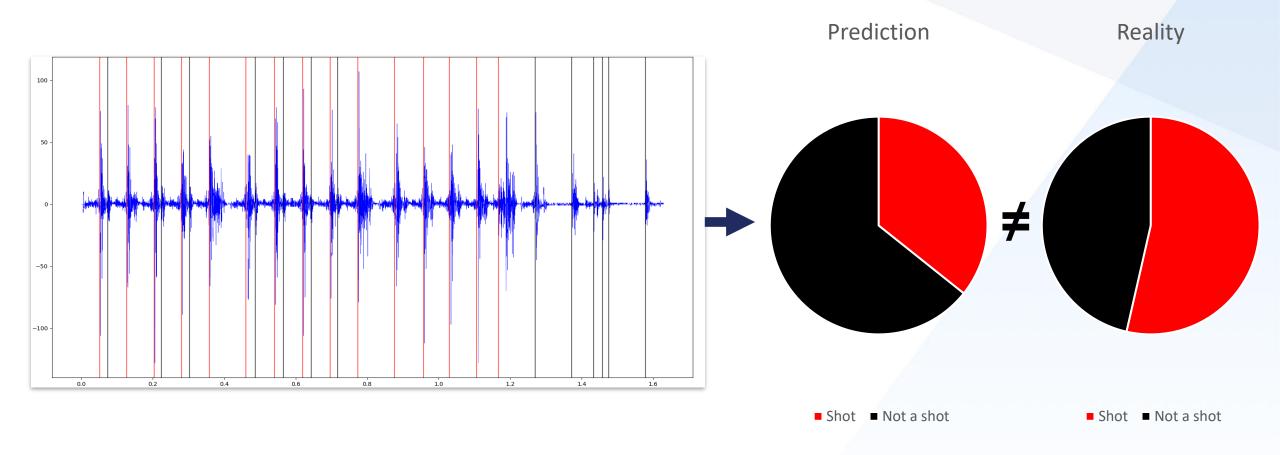
#### **DUMB METRIC GIVES CANDIDATES**







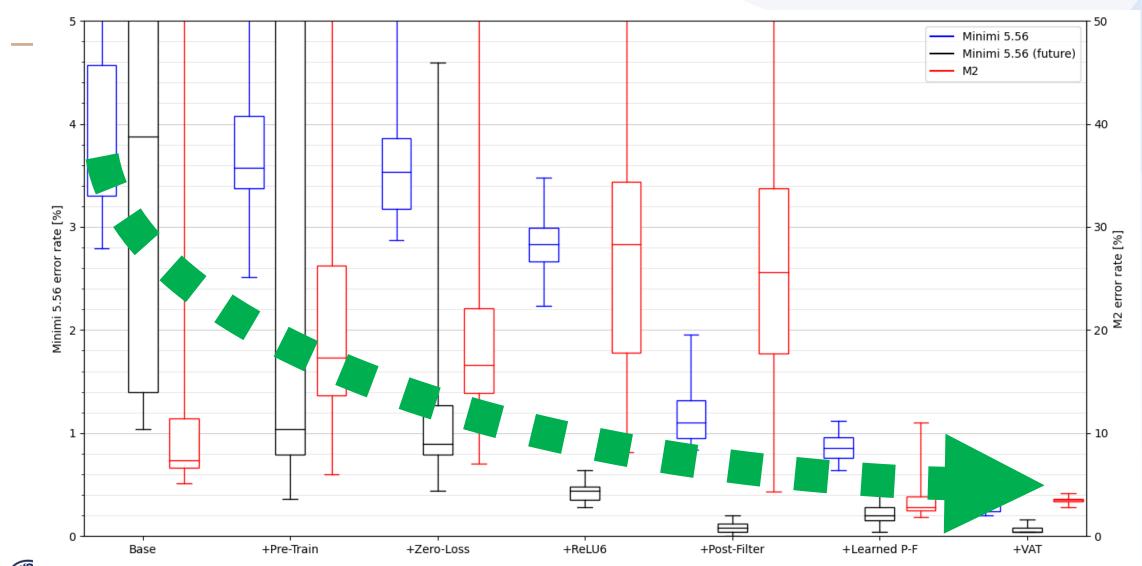
#### LABEL PROPORTIONS







#### ... AND IMPROVEMENTS (CHECK THE PAPER!)



## **HOW DOES IT PERFORM?**

Error rate	Human		EDGAR		Unsupervised
	Validation	Real	Validation	Real	Validation
Minimi 5.56	1.68%	0.37%	0%	0.19%	9.82%
M2HB-QCB	0%	1%	2%	8%	36%





