



IMPETUS Weapon Detection Tool

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The **WEAPON DETECTION Tool's** Mission Is To Detect Weapons To Prevent **Loss Of Life**.









The Weapon Detection Tool Provides Instant **SITUATIONAL AWARENESS**.









But Even When Using The Latest Machine Learning And Al Algorithms, Detecting a Weapon With Security Cameras Is **Hard**, Because The Camera Angle And The Environment Is **Never The Same**.









Ultimately Undetected Weapons Lead To **Expensive** Site Closure And **Loss Of Life** Because The AI They Use Cannot Be Automatically Calibrated When The Camera Angle Changes.







As A Result Existing Weapon Detection Systems Constantly Produce False Alerts And Never Learn From It.











We Learn That To Detect Weapons The AI Needs To Be **Super Accurate**.

Therefore **Data Sharing** Is **Key** To Build Better Al's.







PROBLEM #1

Data Sharing Between **Smart Cities** and **High-Tech Companies** is **Very Limited** Due to GDPR Compliance.







PROBLEM #2

Due To **Drifting**, The AI Keeps Becoming **Unstable** And The Predictions Keep On Becoming **Erroneous**.







PROBLEM #2

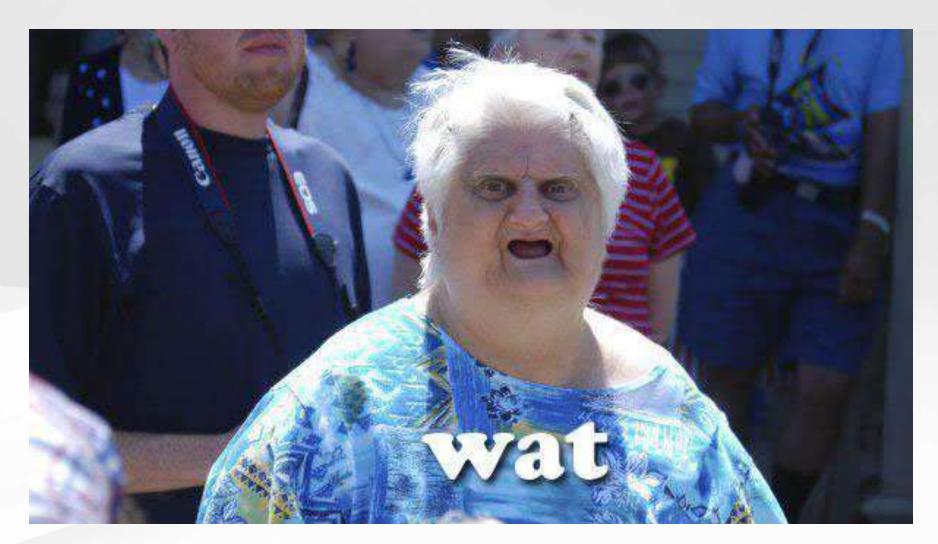
See This Simple Linear Regression.

$$y = \alpha + \beta_1 x_1 + \beta_2 x_2 + \beta_3 x_3 + \dots$$

We Simply Map The **Independent Variables** x_i To Predict The **Target Variable** y :













It's Called AI Drifting

It Pretty Much Means That Any Al Needs To Be Retrained To Remain Accurate.







It's An Update

Just Like When You Update An App On Your Phone





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This Update Prevents Drifting

It Keeps The Weapon Detection Tool **Accurate** But To Do This We Need The Smart Cities To **Share Data**











GDPR Regulations Are Making It Extremely **Challenging And Almost** Impossible For Us To Make You Safer Because Smart Cities Are Not **Allowed To Share Data** To Prevent Al **Drifting**.







When Sharing Data You Remain Safe And We Prevent Terror Attacks.



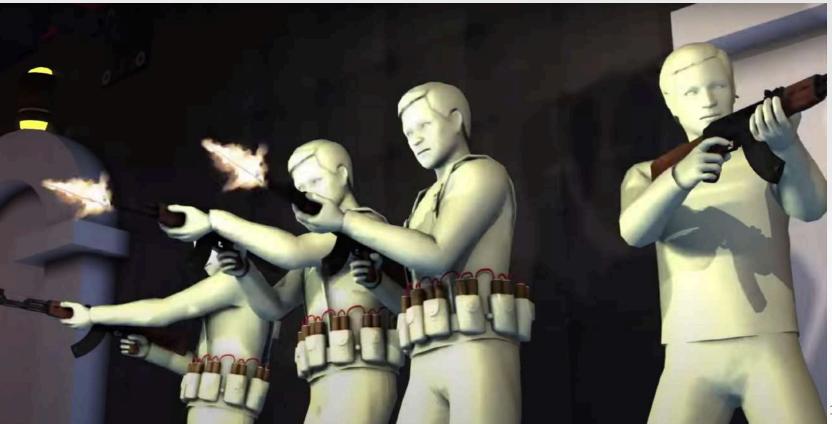






When **Data** Is Not Shared The Same Event That Happened At The Bataclan, Can Happen To You!











SO....

What Are You Going To Do About It?





Thank you!

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