Concept Name: <u>Image Detection for Video Encoding/Decoding</u>

Jacob Wallace

How Might We: Created a tool to automatically detect people streaming violent content to social media

Stakeholders: Primary: Social Media Companies, live streaming sites
Secondary: Law Enforcement

Visuals (e.g., pictures, flow charts, etc.):

What tool is:
Early detection frame analysis of video to prevent streaming of violent attacks and crimes

What tools is not:
Data-mining algorithm, autonomous gate to prevent non-violent streaming.

Explanation:

Social Media companies are slow to take down streamed attacks, From shooters to terrorist attacks. This leads to inexcusable content to linger and fester online. This also leads to potential legal troubles for the streaming services for distributing malicious content. With early detection of attacks law enforcement can be notified and responders can neutralize the attacks before they become mass casualty issues.

What Need Does it Address?

Prevents the streaming of inappropriate content and hopefully deters those people seeking infamy via this method.

How might this idea be quickly tested/prototyped?

Test on samples of video taken from previous attacks, paired with training on video game content as to develop a difference.

Why Might it Fail?

Long processing times
Not enough training data
Added cost of streaming