

A Novel Approach to Violence Detection

...

Avyuk Dixit and Saketh Gabbita

Problem

- Violent crimes have increased by 4.1% over the past few years
- Surveillance cameras are an effective tool for identifying instances of violence
- Human operators are ineffective at monitoring multiple feeds simultaneously
- Other problems can benefit from abbreviated recognition and response

Proposal

Our project is to develop a machine learning model that uses facial emotion detection and pose estimation to identify instances of violent behavior from surveillance feed in real time.