

ATM Surveillance

Delhi Technological University (Formerly Delhi College of Engineering)

Banks That Saw Highest Number of Thefts/Robberies

April 2014-March 2017

Source: Parliament Answer • Created with Datawrapper

Bandhan Bank Ltd.337State Bank of India334Bank of Baroda188State Bank of Bikaner & Jaipur131Bank of Maharashtra128

CURRENT SITUATION

According to Reserve Bank of India, in first 6 months of 2017, Karnataka saw miscreants steal eight times the money it had lost in the whole of 2016-17.

CAUSE

Account debited but cash not received

Multiple withdrawals by the same person in a

single day- not detected

Manual monitoring- monotonous task

No real time action in case of abnormal activity

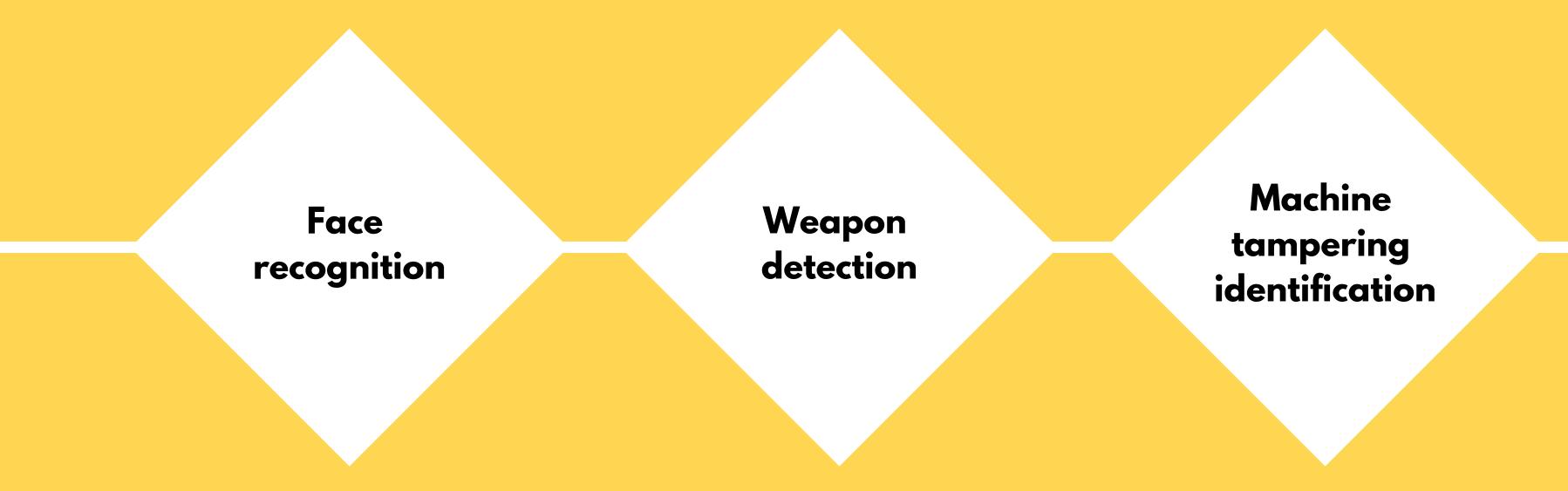
ATM Skimming

AIM



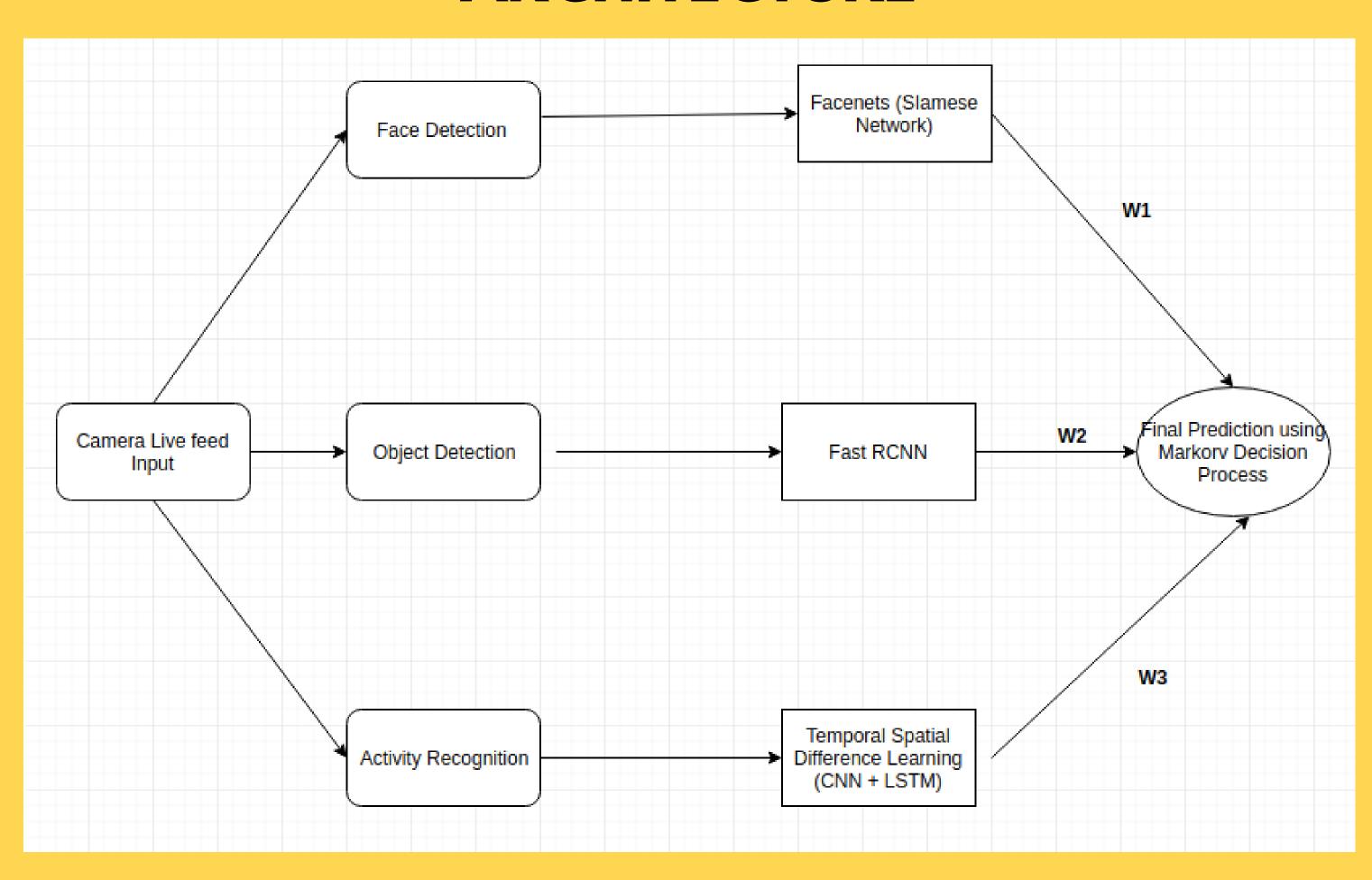
REDUCE MANUAL MONITORING
RESPOND IN REAL TIME
ACTIVITY TRACKING
WEAPON DETECTION
FACE RECOGNITION

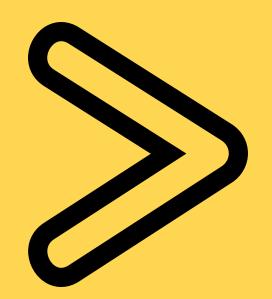




What our ATM Surveillance will facilitate

ARCHITECTURE

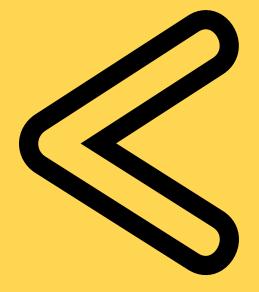




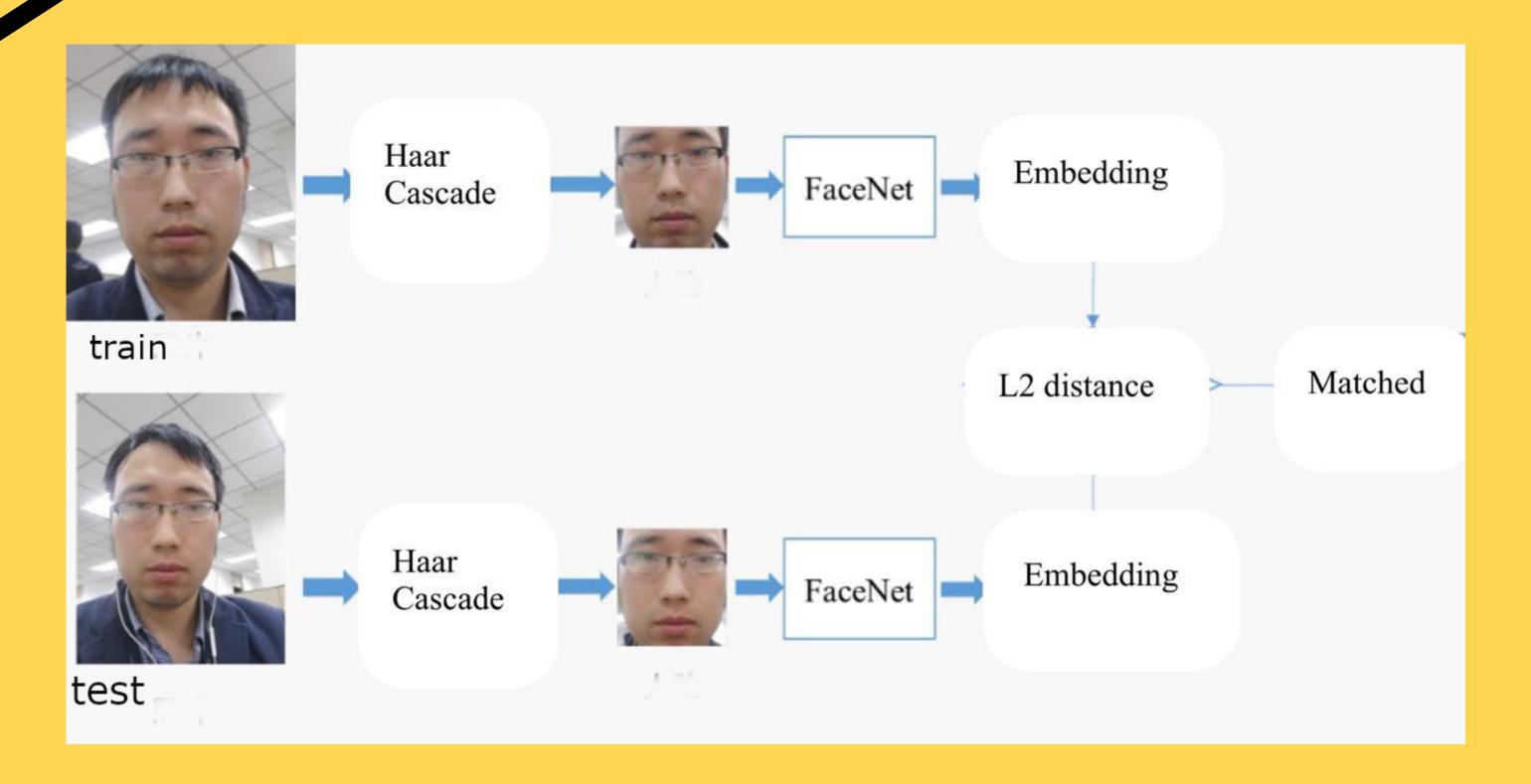


What We Learned

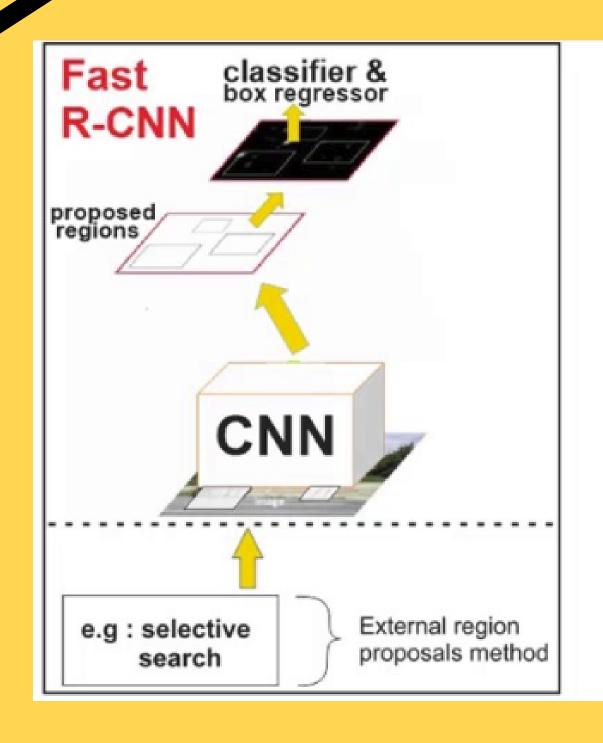
DEMO

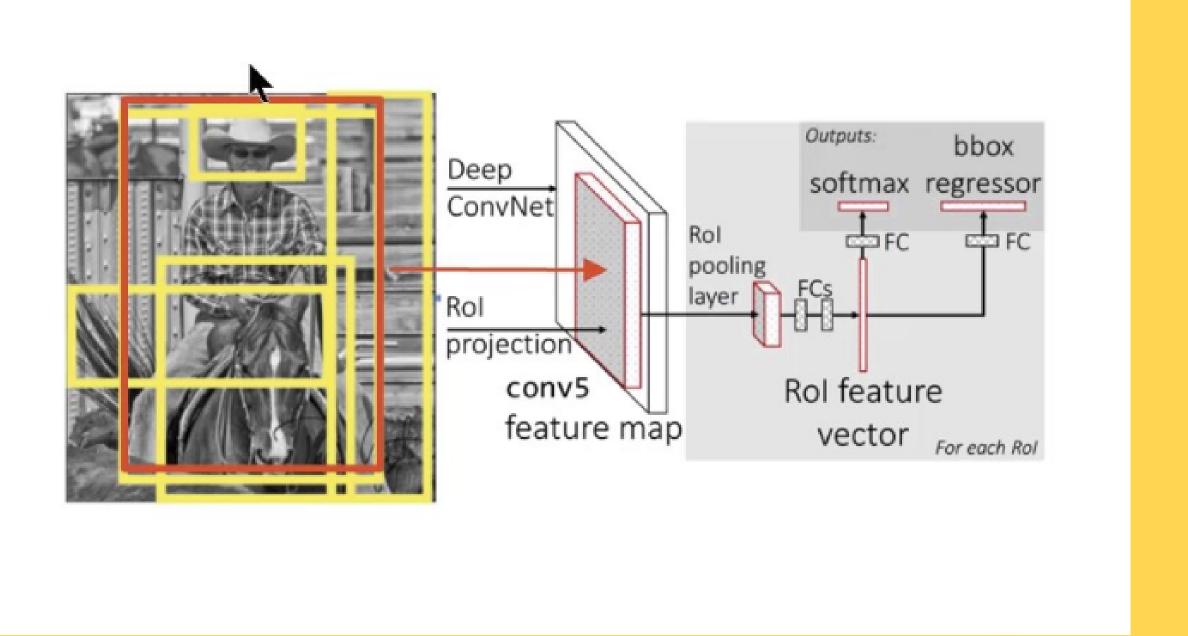


FACE RECOGNITION

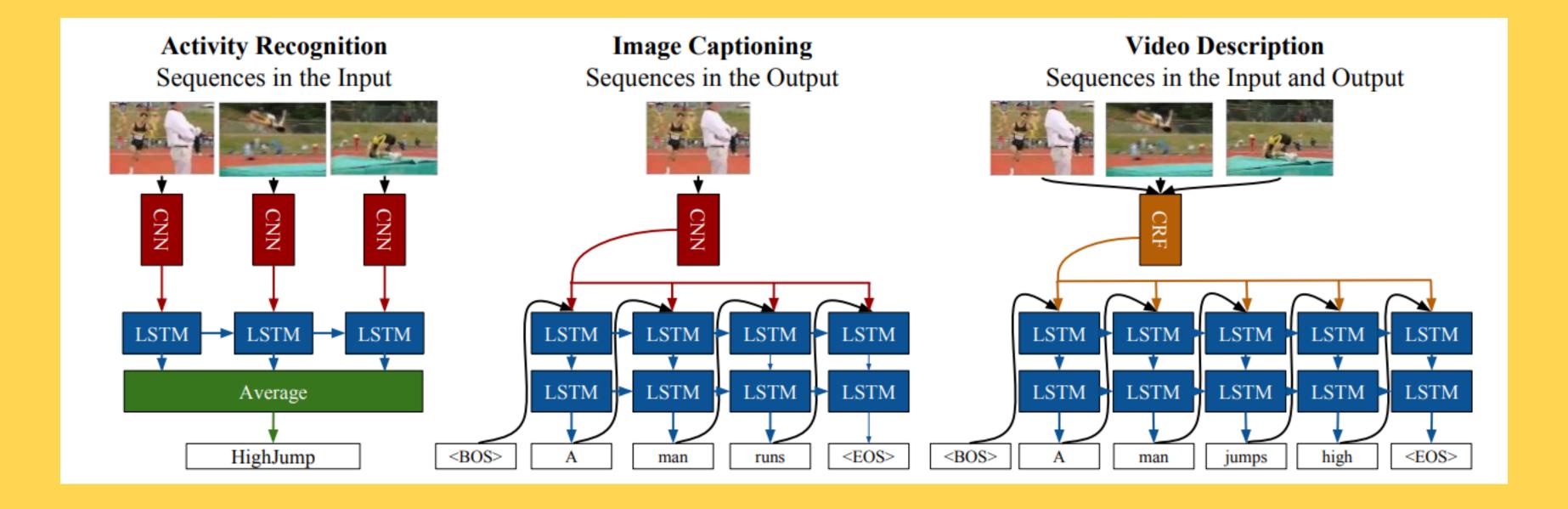


WEAPON DETECTION



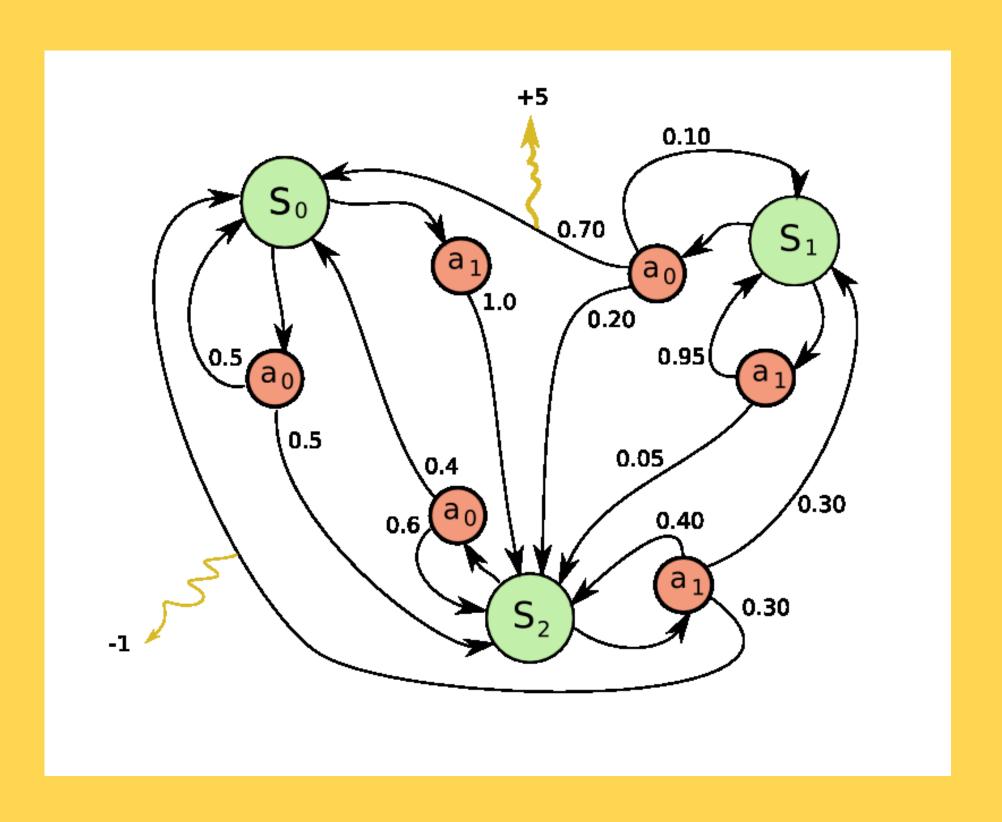


ACTIVITY TRACKING

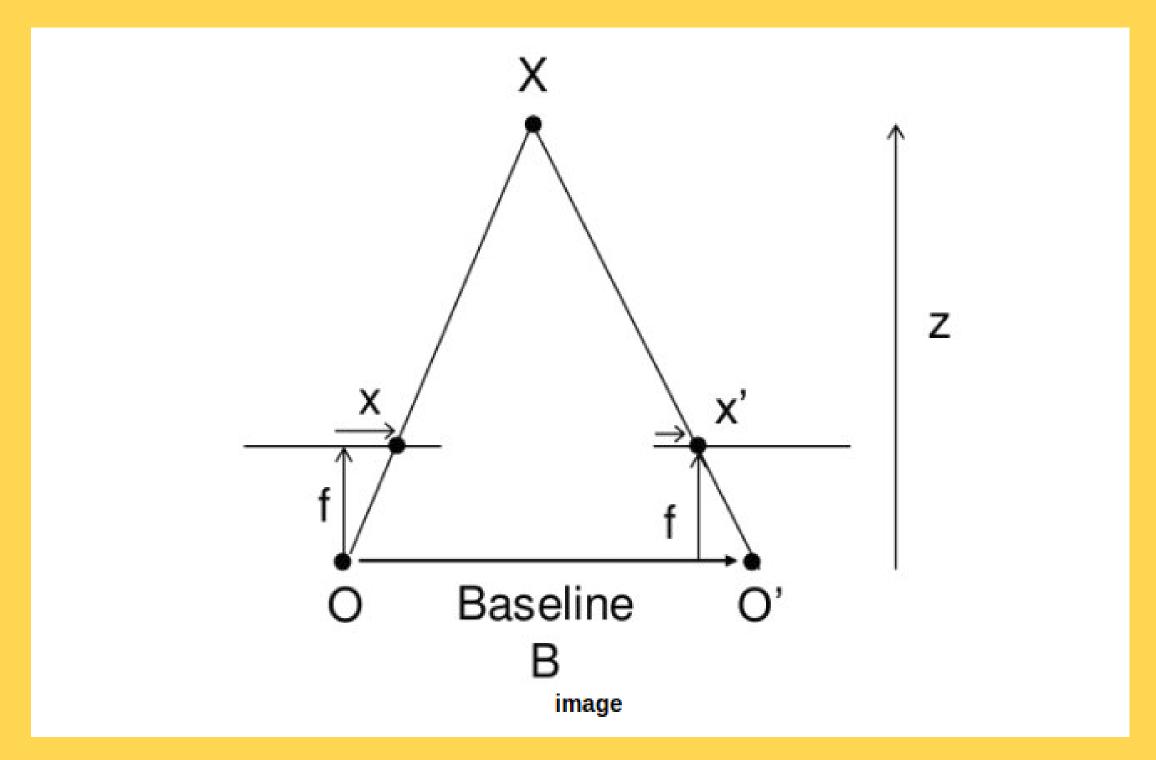




MARKOV DECISION PROCESS



Using Stereo Image for Depth Detection



disparity=x-x'=Bf/Z



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