

Threat Hunting or Threat Farming: Finding the Balance in Security Automation

Alex Pinto – Security Data Scientist – Verizon - @alexcpsec Robert M. Lee – CEO / Founder – Dragos - @RobertMLee

Your Humble Speakers



- Alex Pinto
 - Capybara Enthusiast



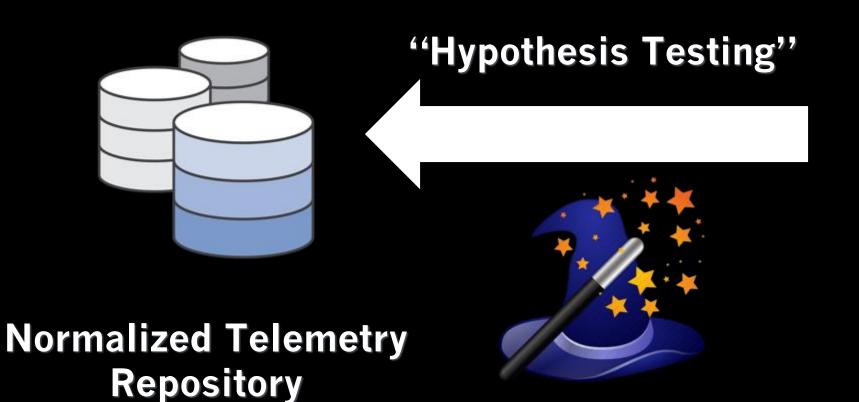
- Rob M. Lee
 - Writes Comics

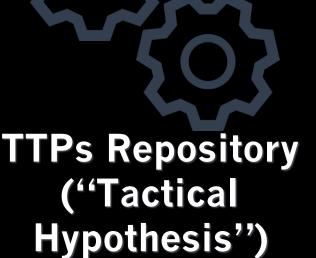




"Genius is one percent inspiration and ninetynine percent perspiration."

Thomas A. Edison





What does Good looks like?

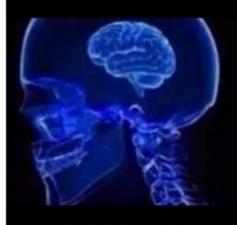


Type II Error



return FALSE;

Hunting Automation Maturity Model (#HAMM)



- **IOC Matching**
- Signatures
- Anti-virus



- Security / Hunting Analytics
- Stats methods
- (Some) UEBA maybe?



Supervised machine learning with previous signals



- Rob [M|T] Lee
- **David Bianco**
- Probably not you

29:31 / 30:48







Pushing the Boundaries of Threat Hunting Automation - SANS Threat Hunting Summit 2017





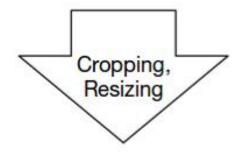
GOOD IDEA BADIEA

Lab (Stationary) Test

Physical road signs with adversarial perturbation under different conditions







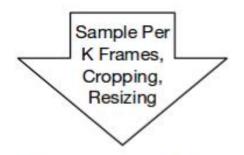
Stop Sign → Speed Limit Sign

Field (Drive-By) Test

Video sequences taken under different driving speeds





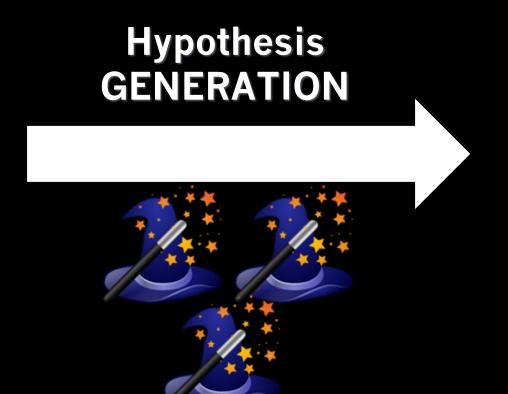


Stop Sign → Speed Limit Sign

Song et al. - Robust Physical-World Attacks on Deep Learning Models: https://arxiv.org/pdf/1707.08945.pdf

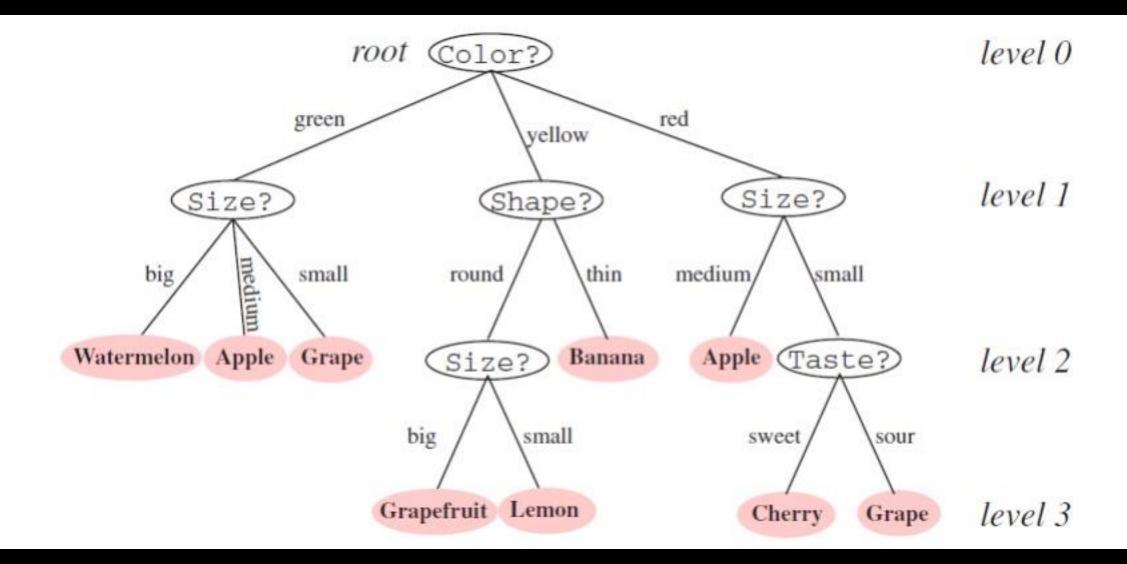


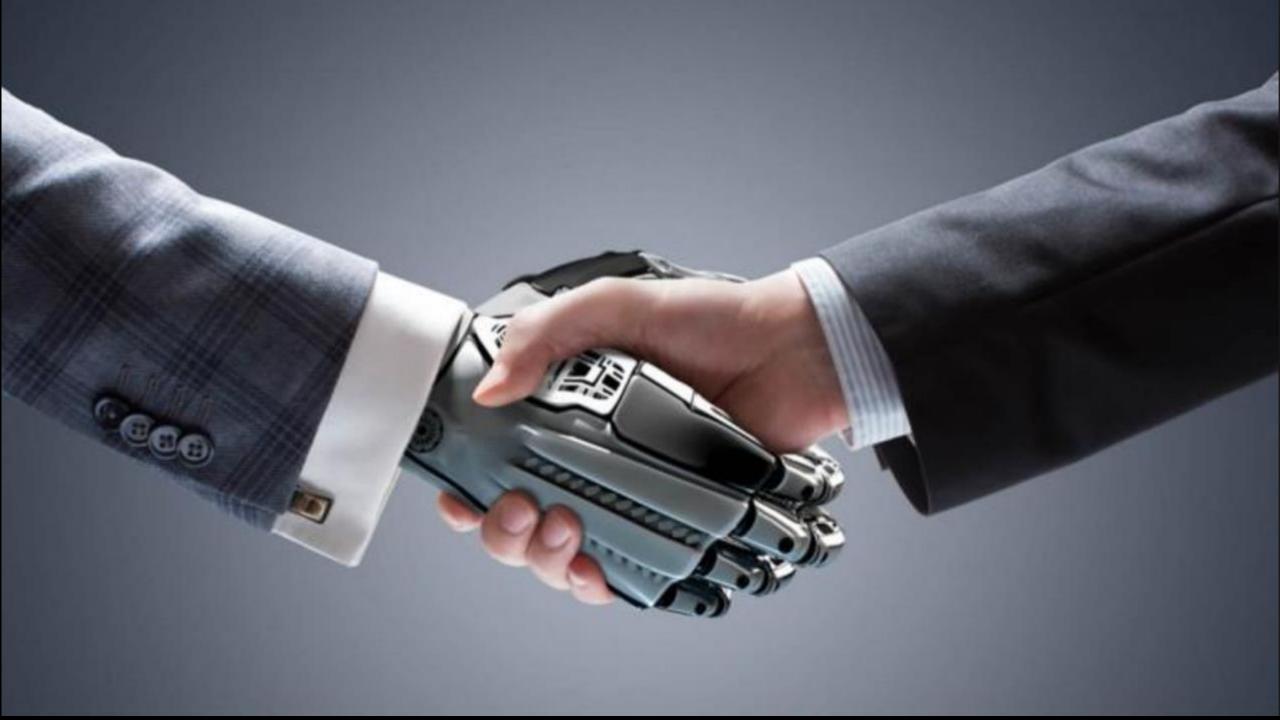
Accurate Hunting Leads Vetter by Human Analysts





TTPs Repository
("Tactical
Hypothesis")







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