



Terrorism Detection and Intervention on Social Media Using Machine Learning

Saiph Savage (Human Computer Interaction Lab, West Virginia University)

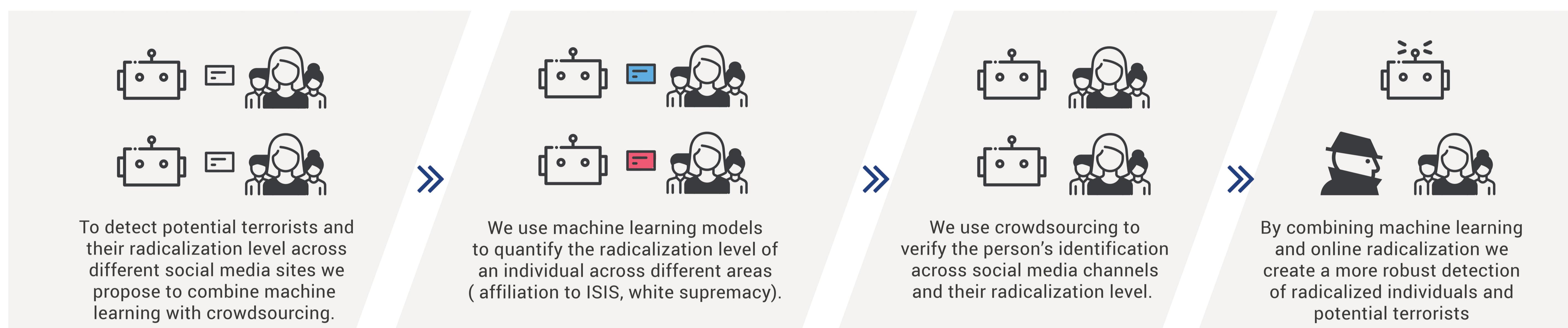
Eber Betanzos (Cyber Law Center)

We present a system that combines machine learning and crowdsourcing to detect the online radicalization level of an individual across different social media platforms and across different areas (e.g., affiliation to ISIS, white supremacy, or organized crime). The military can use this system to identify potential terrorists online.

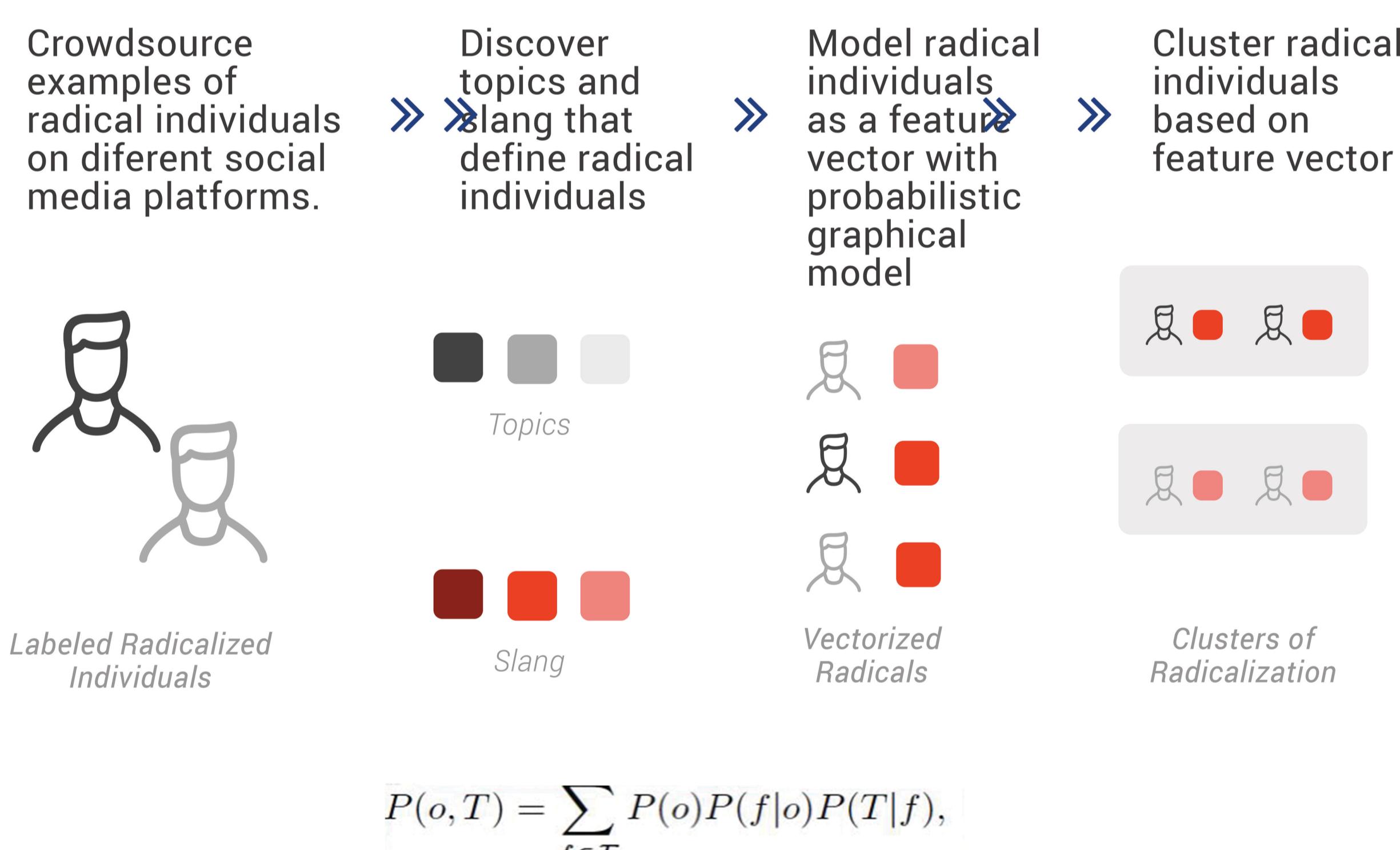
INTRODUCTION

Social Media platforms, e.g., Facebook, Twitter, Reddit, have become swamps for terrorist recruitment and radicalization.

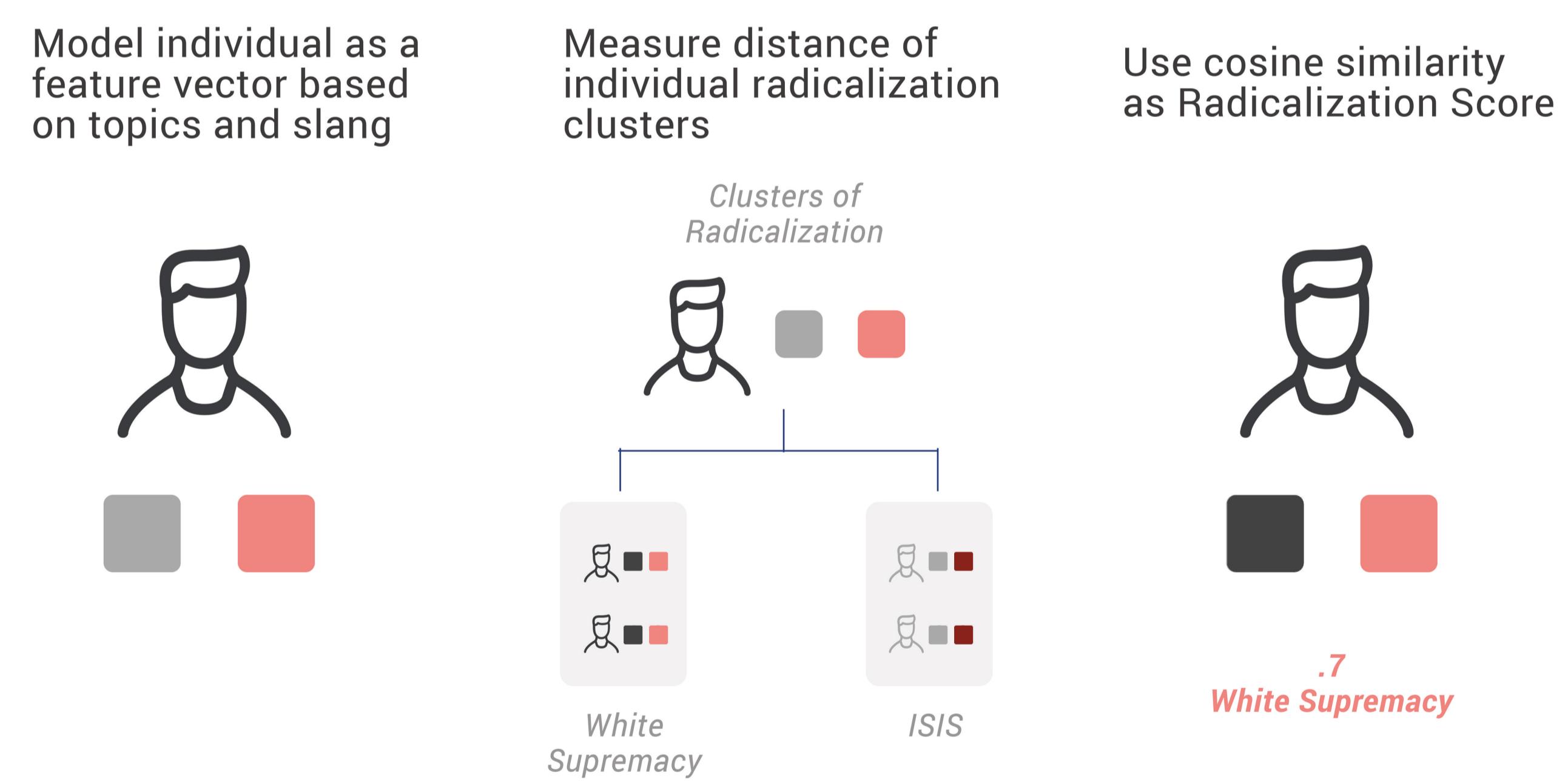
ONLINE RADICALIZATION DETECTION VIA CROWDSOURCING AND MACHINE LEARNING.



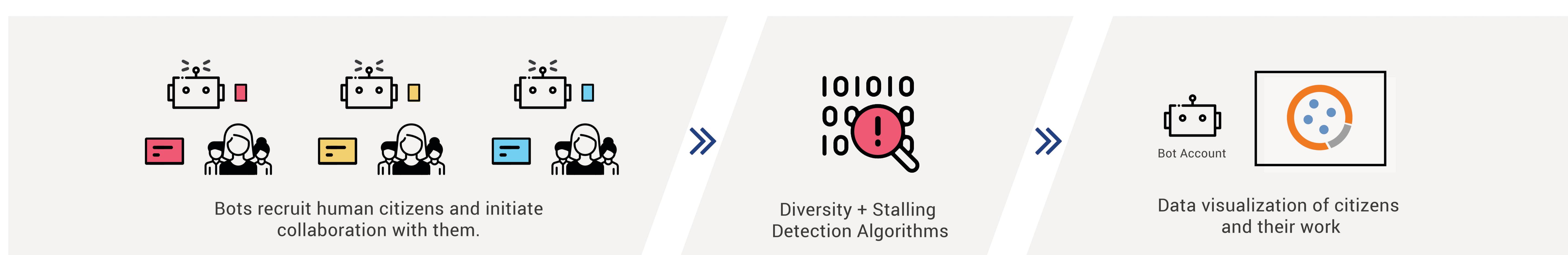
IDENTIFY TYPES OF RADICAL INDIVIDUALS



MODEL RADICALIZATION SCORE OF ANYONE



INTERVENTION STRATEGIES



Patents and Papers

*Participatory Militias: An Analysis of an Armed Movement's Online Audience CSCW'15

*Botivist: Mobilizing Volunteers with Bots, CSCW'16

*Socialy and Contextually Appropriate Recommendation Systems, US Patents