Hussam Habib

Department of Computer Science
The University of Iowa
Iowa City, IA, USA

(319) 930-9438
hussam-habib@uiowa.edu
hussamh10.com

Research Interests

Computational Social Science; Online Radicalization;
Content Moderation; Information Flow.

Education

2016–present **Ph.D. in Computer Science**
Advisor: Prof. Rishab Nithyanand
The University of Iowa

2009–2013 **B.S. in Computer Science**
National University of Computer & Emerging Sciences, Pakistan

Professional Experience

2020 **Research Assistant**
SPARTA at University of Iowa
Computational Social Science and Online Radicalization

2018–2019 **Research Assistant**
TPI at LUMS
Computational Social Science and Online Radicalization

2018–2020 **Co-founder, CTO**
OMNO AI, Lahore, Pakistan
Computer Vision, Machine Learning and Natural Language Processing

Research Projects

Submitted CSCW '20 **Act or React**
Investigating Proactive Strategies For Online Community Moderation.
We study Reddit for online community evolution and use predictive strategies for proactive moderation of communities.

2020 **Interventions**
Identifying events that cause extreme opinions
We identify and track users with extremist traits on online communities and identify observable events that caused this extremism.

2020 **Information Flow —** A Survey
A survey on understanding Information flow using different perspectives.
We organize recent research done to understand dynamics information flow on social media by the factors they use.

2018 **Android Repackaging Analysis**
Measurement study on prevalence of repackaged and malicious apps.
We develop methods to detect repackaged apps on major Chinese app stores and cracked apps forums to measure their prevalence and maliciousness.

Projects @ OMNO AI

2018 **Adlytic** — Using computer vision and machine learning to detect traffic demographic and individual attributes to provide better user experience and impressions .

2019 **Trafflytic** — Tracking traffic using low quality cameras and generating real time analytics including counts, congestion scores and traffic speeds.

2019 **Digital Salon** — integrating computer vision and generative models to provide clients with style and treatment recommendations on hairstyle makeup and skin treatment.

2019 **Smart Gondola** — Smart product shelf with dynamic ad content enabled with demographic analysis and impression calculation.

2019 **Football Analytica** — Generation of real time football (soccer) analytics from camera feed using machine learning and computer vision techniques.