

ENHANCING RESILIENCY, CONNECTION, AND RESOURCE ALLOCATION FOR TRAUMA SURVIVORS

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INTRODUCTION

Artificial Intelligence (AI)

Presenter Education and Background

National Crime Victims Research and Treatment Center (NCVC)

Survivors of Homicide Support Group (SHSG)





LEARNING OBJECTIVES

- 1. Define Al and its role in social work practice
- 2. Explore Al-driven tools that enhance resiliency, connection, and resource allocation
- 3. Discuss ethical considerations in Al-powered social work practices
- 4. Provide real-world case applications
- 5. Gain insights into the future of AI in advancing our field of social work

WHY AI MATTERS IN SOCIAL WORK

CHALLENGES IN TRADITIONAL SOCIAL WORK:

- High case loads
- Burnout
- Resource limitations

HOW AI HELPS US NOW:

- · Improves service accessibility
- Enhances risk assessment
- Enhances intervention strategies
- Reduces administrative burdens
- Allows for more direct client engagement

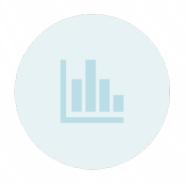
APPLICATIONS OF ALIN TRAUMA WORK

Predictive Analytics

Chatbots

Sentiment Analysis

PREDICTIVE ANALYTICS



ANALYZES
PATTERNS IN DATA



FACILITATES
TAILORED EARLY
INTERVENTIONS



ENHANCES DECISION-MAKING



Predicting Risk & Identifying Vulnerabilities

- IBM Watson
 - Palantir
- Google Cloud Al

Personalizing & Tailoring Support

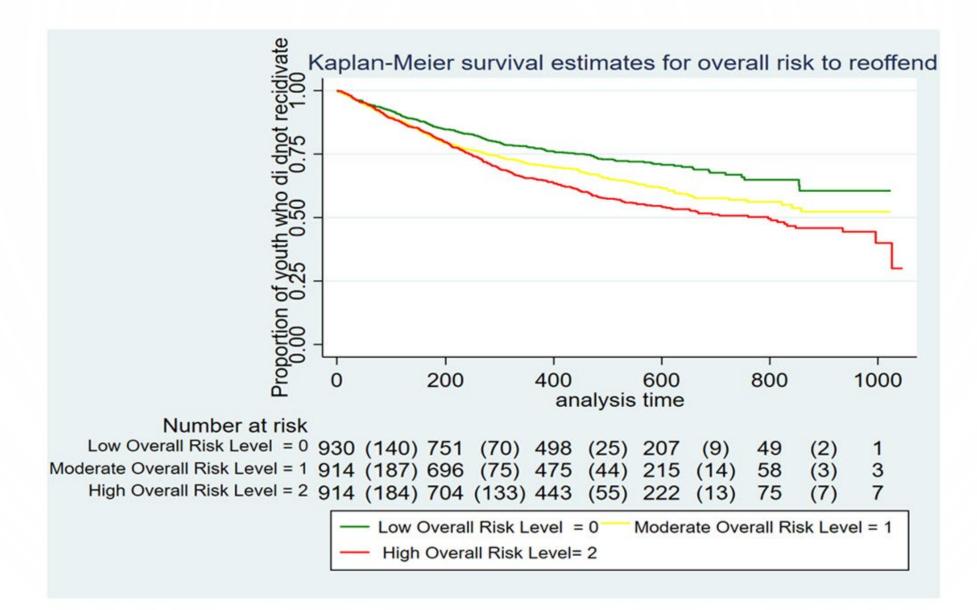
- SAS
- Apricot

Visualizing Data & Enhancing Decision-Making

- Tableau
- RiskScape
- Qlik Sense

Variable ^a	3-Week ITP (N = 361)		2-Week ITP ^a (N = 108)	
	N	%	N	%
Sex				
Male	230	63.71	51	47.22
Female	131	36.29	57	52.78
Ethnicity				
Latinx	70	19.39	19	17.59
Not Latinx	291	80.61	89	82.4
Race				
American Indian/Alaskan Native	5	1.39	1	0.93
Asian	5	1.39	2	1.87
Black or African American	74	20.50	29	27.10
Native Hawaiian/Pacific Islander	3	0.83	0	0.00
Other	27	7.48	8	7.48
Refusal	1	0.28	0	0.00
Unknown	1	0.28	0	0.00
White	245	67.87	67	62.6
Income category				
\$0-\$20 000	36	10.56	22	9.24
\$20 000-\$49 999	116	34.02	73	30.6
\$50 000-\$99 999	109	31.96	90	37.82
>\$100 000	80	23.46	53	22.2
Military service branch				
Air force	21	5.82	10	9.20
Army	245	67.87	59	54.63
Coast guard	2	0.55	2	1.85
Marines	54	14.96	19	17.59
Navy	39	10.80	18	16.67
Service era				
Post 11 September 2001	331	91.61	92	85.19
Deployed				
Yes	286	79.22	77	71.30
Military sexual trauma				
Yes	154	42.66	28	25.93
	M [range]	S.D.	M [range]	S.D.
Age	41.46 (24-74)	9.43	42.93 (26-71)	9.27
PCL-5 Baseline ^b	55.63 (19-80)	12.33	50.72 (16-80)	15.15
PCL-5 Post-Treatment	33.79 (0-80)	19.38	34.13 (0-74)	16.35

Smith (2023)



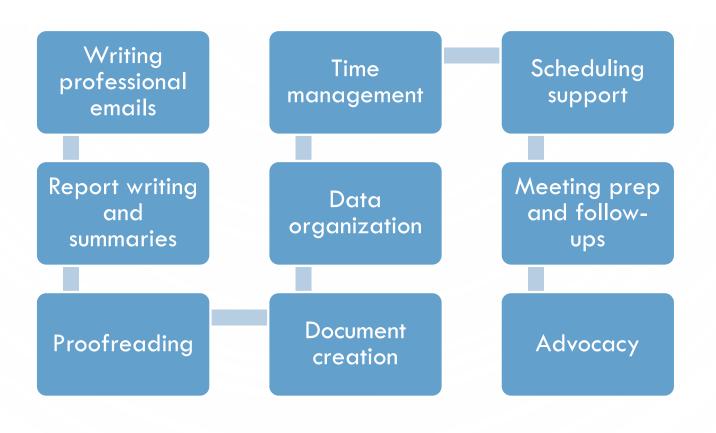
CHATBOTS

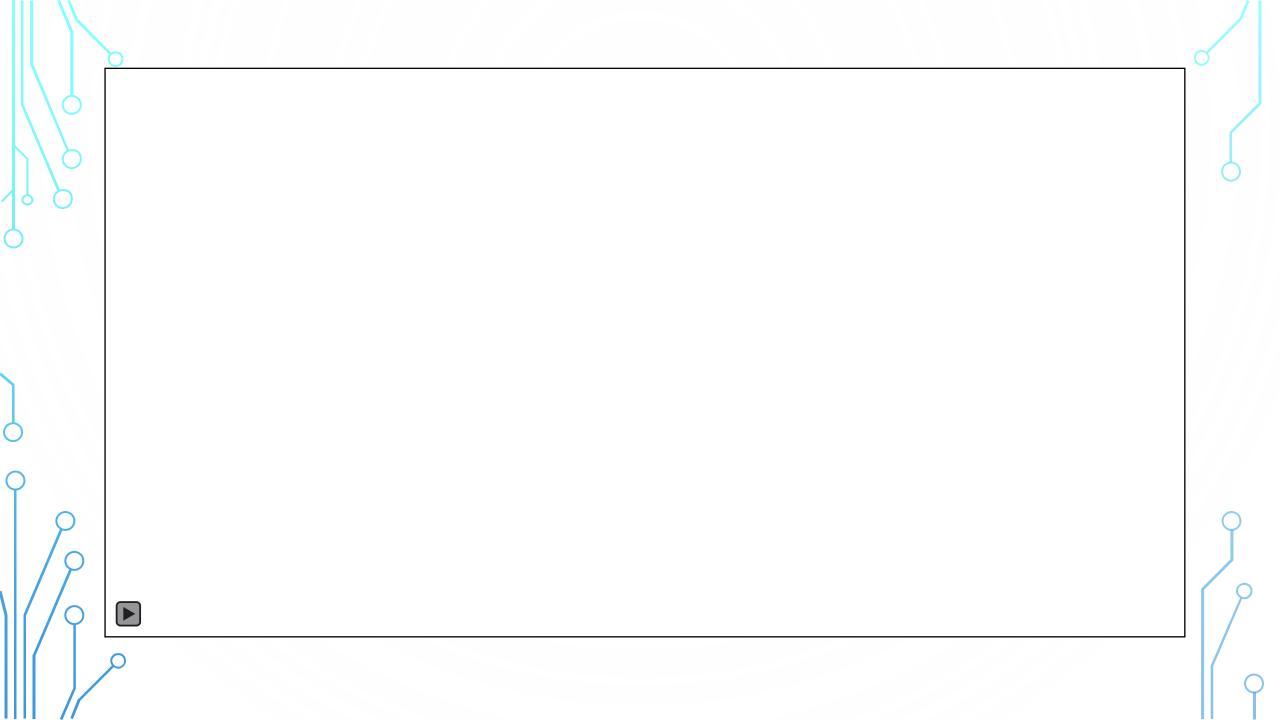
24/7/365

Non-biased

Approachable

EXAMPLE: CHATGPT





SENTIMENT ANALYSIS



Analyzes language patterns



Trajectories and trends

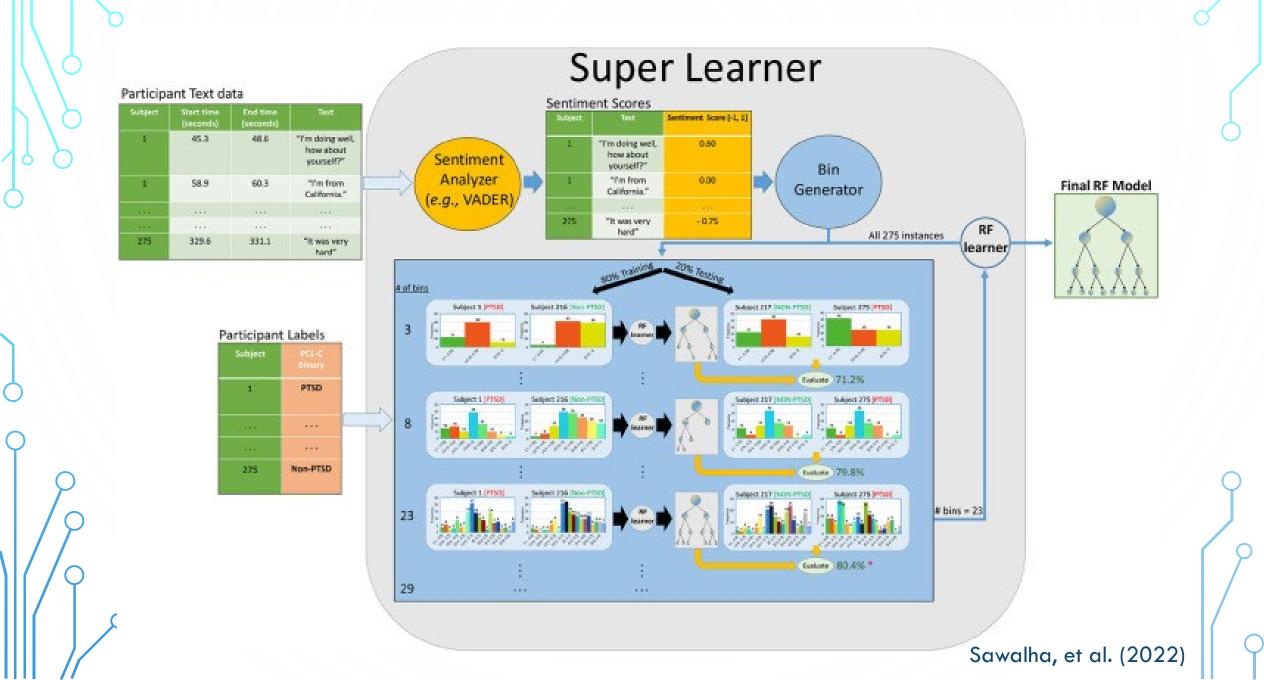
EXAMPLES

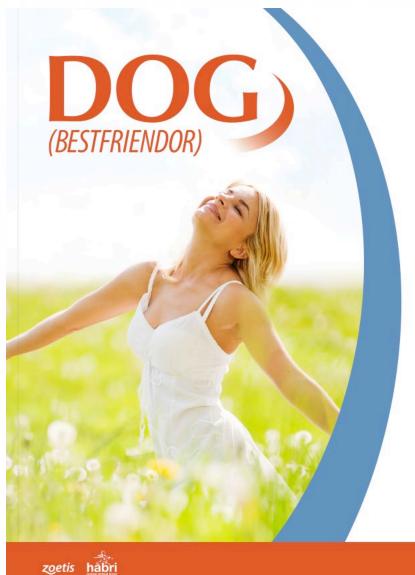
Analyzing Client Feedback

- IBM Watson
- MonkeyLearn
- Lexalytics
- Google Cloud's Natural Language API

Monitoring Social Media Sentiment

- Clarabridge
- Brandwatch
- Sentiment 140
- Sprout Social
- Hootsuite Insights





DISCOVER A MORE HEALTHFUL LIFE. DISCOVER DOG.

Scientific research shows that DOG can help1



Reduce stress levels



Lower blood pressure



Relieve depression



Strengthen the immune system



Lower cholesterol and triglyceride levels



Slow heart rate

ASK YOUR VETERINARIAN ABOUT DOG

DOG Facts

WARNINGS

Side effects may include:

■ Picking up poop ■ Being jealous of DOG kissing other people

efore you leave the house Excessive social media posts

■ Having full on discussions with DOG ■ Chewed up shoes ■ Chasing after squirrels with DOG . Feeling guilty if you don't tell DOG you love them . Stock up on toys and treats . Speak in silly pet voices

Active ingredient.

■ If you don't have a pulse ■ If you have a problem with love and affection

When using DOG

thepeteffect.org/the-science
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Discover the healing power of pets.



The Pet Effect.org

OPEN-LOOP AI V. CLOSED-LOOP AI

Open-Loop

Static
Pre-programed
No learning from data

Closed-Loop

Dynamic
Adaptive
Self-improving



AI IN ACTION

ENHANCING RESILIENCY

AI-POWERED MENTAL HEALTH CHATBOTS

Wysa

Woebot Health

AI-DRIVEN COGNITIVE BEHAVIORAL THERAPY



AI-BASED EMOTION RECOGNITION



PTSD Symptoms Reduction



Post-Traumatic Stress Disorder symptoms measured using the a scaled adapated from the PTSD Checklist for DSM-5 (PCL-5).



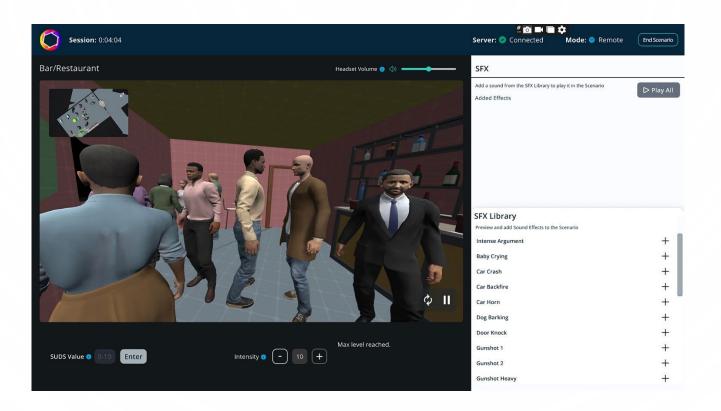








VIRTUAL REALITY EXPOSURE THERAPY (VRET)



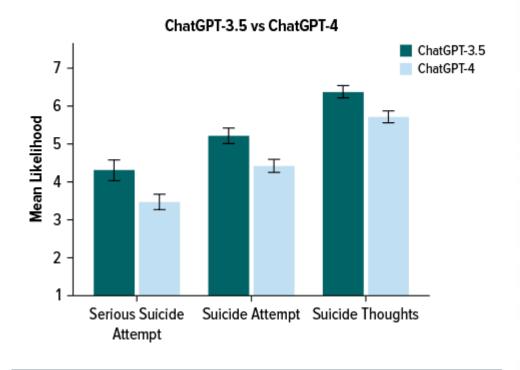
AI-ENHANCED MOBILE APPLICATIONS

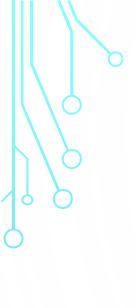


PREDICTIVE ANALYTICS FOR SUICIDE PREVENTION

Figure 4.

Comparison Between ChatGPT-3.5 and
ChatGPT-4 on the Likelihood of Serious Suicide
Attempt, Suicide Attempt, and Suicide Thoughts
(Mean ± SEM)

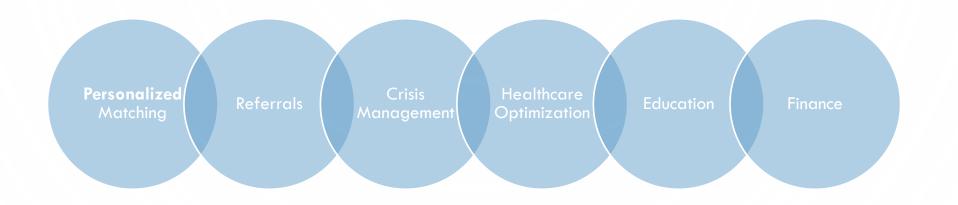




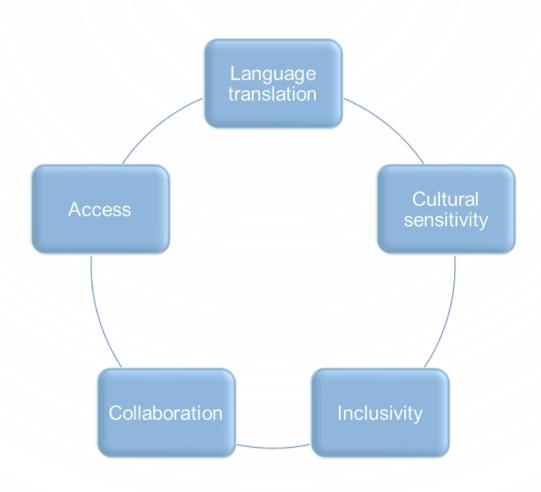
AI IN ACTION

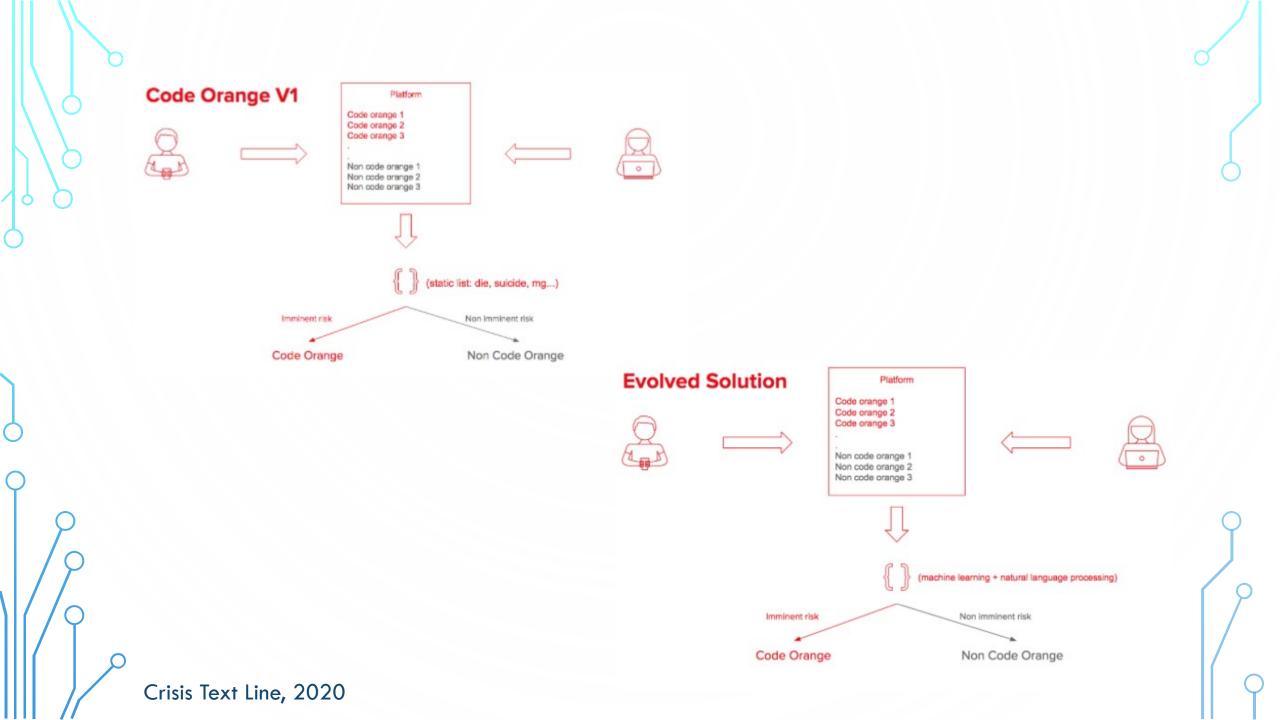
STRENGTHENING CONNECTION AND RESOURCE ALLOCATION

RESOURCE ALLOCATION



STRENGTHENING CONNECTION







1 Prepare the colored pencils:

2 Relax and feel free to choose where to start coloring to fully unleash your magic:

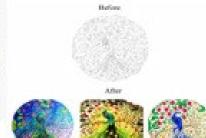
3 Use each color wisely and let them release different energy;











Try different colors, all will have an artistic effect beyond your imagination.

Only paint the picture partially, the effect is not the same.

The base color becomes black, which can increase the sense of mystery.















Apply every part and enjoy the whole process.

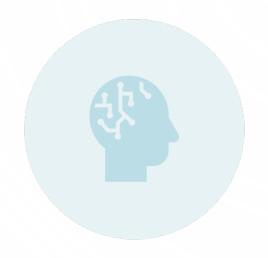
Gradlent coloring to increase the sense of three-dimensional.

Coloring outside the outline to produce an oil painting effect.

PROFESSIONALLY & PERSONALLY



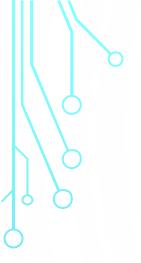
MANAGING EMOTIONAL WELLBEING





AI-POWERED MENTAL HEALTH SUPPORT

AI-POWERED JOURNALING & REFLECTION



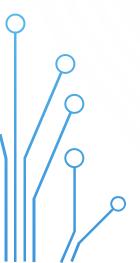
WORKLOAD & STRESS MANAGEMENT



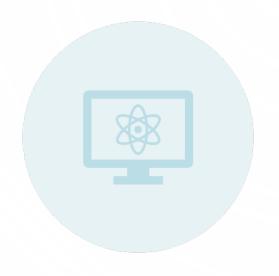
Al-Powered Case Management & Documentation Tools



Al for Prioritizing Tasks & Reducing Overload



PROFESSIONAL DEVELOPMENT & SUPPORT





AI-DRIVEN TRAINING & SKILL DEVELOPMENT

AI FOR PEER SUPPORT & COLLABORATION

PERSONAL RESILIENCE & WORK-LIFE BALANCE





Al for Mindfulness & Meditation

Al for Physical Wellness & Sleep Optimization



ETHICAL CONSIDERATIONS

Social Work Core Values

Privacy & Confidentiality

Bias

Equity

Human Oversight

Accountability

Transparency

Informed Consent

 Table 1
 Sample demographics
 Young adults (N=32)Parents (N=25)(N = 91)18-25 (21.5) 27-78 (46.5) Age range (mean) Sex, N(%)Male 10 (31%) 4 (16%) 22 (69%) 21 (84%) Female Race, N(%)American Indian/Alaska Native 22 (69%) 19 (76%) Mixed Heritage (AI/AN plus other) 10 (31%) 4 (16%) 2 (8%) Other (White, Hispanic, Black) 0(0%)Table 2 Themes and subthemes Theme Total Young adults **Parents** by number of focus groups Subtheme (n = 13)(n=6 FGs)(n=4 FGs)(FGs) and type of participants FGs) Risk factors AOD use 13 6 Community AOD use 12 Witnessed AOD use 11 Personal AOD use 5 12 Trauma Historical and intergenerational 12 Other trauma 3 Urban challenges and opportunities 12 Poverty of opportunity 11 5 Economic hardship 3 3 9 Resilience factors Immediate family support 7 2 3 Extended and community support 12 5 Adaptation to risky AOD settings 8 Family distancing

Intentional sobriety Positive change Family communication Family storytelling

Family engagement in traditional practices

7

2

Providers (N=33)

23-72 (48.9)

7 (21%)

26 (79%)

19 (58%)

6 (18%)

7 (21%)

Providers

(n=3 FGs)

3

3

Palimaru, et al., 2023

CASE STUDY: AI IN TRAUMA RECOVERY

A client has recently lost their son to homicide and is experiencing significant distress. They are on a waitlist for specialized trauma therapy but need immediate support. Ai-assisted interventions, including skills for psychological recovery (SPR), provide real-time coping tools during this critical waiting period.

THE FUTURE OF AI IN SOCIAL WORK

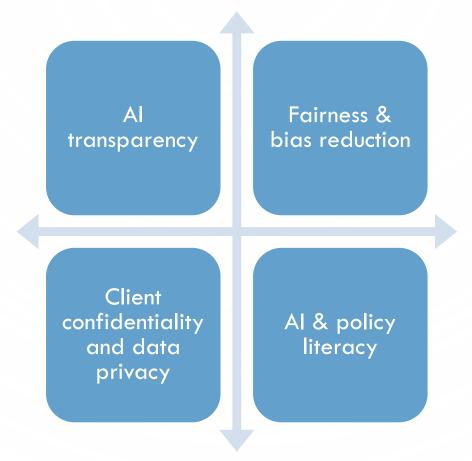
Enhancing
TraumaInformed
Interventions

Reducing
Burnout for
Social
Workers

Improving
Accessibility
& Equity in
Social
Services

Call to Action:
Responsible
Al Integration
in Social
Work

KEY ADVOCACY AREAS



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