Video Analytics for Behavioral Research Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In an increasingly data-driven world, video analytics has become an indispensable tool for behavioral research, especially when addressing sensitive topics such as trauma, mental health, gender-based violence, substance abuse, and marginalized communities. Video Analytics for Behavioral Research Training Course bridges the gap between ethical considerations and cutting-edge technology, empowering researchers to utilize AI-powered video analysis, computer vision, and machine learning responsibly and effectively. It offers deep insights into observational research, non-intrusive data collection, and pattern recognition in real-world environments.

Designed for academics, policy makers, and practitioners working in psychology, criminology, sociology, and public health, this course equips participants with skills to capture, process, and interpret visual behavioral cues without compromising dignity, privacy, or consent. Combining qualitative analysis and quantitative video data, this training prioritizes ethical compliance, cultural sensitivity, and AI transparency, providing actionable insights for real-world interventions.

Programme Curriculum

Video Analytics for Behavioral Research Training Course

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Course Objectives

1. Understand the fundamentals of video analytics in behavioral science.
2. Identify ethical issues in sensitive topic research using visual data.
3. Apply AI and machine learning to behavioral video analysis.
4. Use computer vision tools to analyze human movement and expression.
5. Implement non-intrusive video recording for field data collection.
6. Develop techniques for context-aware behavioral recognition.
7. Conduct emotion detection and facial analysis in sensitive contexts.
8. Handle data privacy and security in sensitive video recordings.
9. Utilize automated coding to identify behavioral patterns.
10. Interpret body language and non-verbal cues in vulnerable populations.
11. Employ video segmentation and annotation tools ethically.
12. Integrate video analytics with qualitative frameworks.
13. Design research projects using human-centric AI in sensitive fields.

Target Audience

1. Academic Researchers
2. Clinical Psychologists
3. Behavioral Scientists
4. Public Health Analysts
5. Criminologists
6. NGO Monitoring & Evaluation Officers
7. AI/Tech Developers in Health & Social Research
8. Ethics Review Board Members

Course Duration: 5 days

Course Modules

Module 1: Foundations of Video Analytics in Behavioral Research

- Introduction to video analytics and behavioral science
- Key concepts in observational research
- Advantages and risks of video-based methods
- Types of behavioral data captured through video
- Setting up an ethical research framework
- **Case Study**: Use of CCTV footage in analyzing urban youth behavior

Module 2: Ethical Frameworks and Consent in Sensitive Topics

- Understanding research ethics in visual data
- Cultural sensitivity and participant well-being
- Informed consent and opt-out protocols
- Regulatory compliance (GDPR, IRB, etc.)
- Data storage and anonymization best practices
- **Case Study**: Gaining consent for video interviews with trauma survivors

Module 3: AI-Powered Tools for Video Analytics

- Overview of AI and ML tools for video research
- Behavior recognition using deep learning
- Natural language processing for audio-video sync
- Emotion and facial expression recognition
- Toolkits (e.g., OpenPose, Affectiva, DeepLabCut)
- **Case Study**: Detecting signs of emotional distress in therapy sessions

Module 4: Computer Vision for Behavioral Coding

- Introduction to computer vision in social science
- Scene recognition and human pose estimation
- Heatmaps and attention tracking
- Integrating visual metadata with behavioral logs
- Using YOLO and TensorFlow for detection
- **Case Study**: Analyzing aggression in school settings via video

Module 5: Non-Intrusive Video Data Collection Techniques

- Selecting equipment and positioning for discretion
- Minimizing observer effect in data collection
- Remote vs in-person data gathering
- Lighting, resolution, and environmental impact
- Managing unexpected behavior and interruptions
- **Case Study**: Field-based research on domestic violence shelters

Module 6: Behavioral Pattern Detection & Interpretation

- Defining behavioral indicators in visual formats
- Inter-rater reliability in video coding
- Time-stamped event detection
- Identifying subtle behavioral triggers
- Linking behavioral trends to contextual variables
- **Case Study**: Monitoring self-soothing behaviors in autistic children

Module 7: Integration of Qualitative and Quantitative Data

- Mixed-method approaches in video analysis
- Annotating behavior with context-rich narratives
- Triangulating video, interviews, and field notes
- Coding schemes for interdisciplinary research
- Ensuring data integrity across formats
- **Case Study**: Merging ethnographic interviews with refugee camp surveillance

Module 8: Reporting and Visualization of Findings

- Creating visual dashboards from video data
- Communicating results to non-technical stakeholders
- Ethical visualization strategies
- Avoiding misrepresentation in visual data
- Tools for real-time behavioral alerts
- **Case Study**: Using video dashboards to report child welfare trends

Training Methodology

- Instructor-led presentations and live demonstrations

- Group activities and practical coding exercises
- Ethical scenario-based discussions and reflections
- Hands-on training with AI/video tools and toolkits
- Real-world case study reviews with guided critique

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com