

INTELLIGENT DECEPTION DETECTION FOR ONLINE INTERVIEWS

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DECLARATION

Unless otherwise noted, I hereby declare that the content of this dissertation is entirely original work by myself, and that no part of it has been previously submitted for a master's degree, a degree, or a diploma at another university or institution of higher learning without acknowledgement. The University of Moratuwa has the nonexclusive right to reproduce and distribute my dissertation in print, electronic, or any other medium without my permission. All or part of this content may be incorporated into future works of mine.

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Under my supervision, the aforementioned candidate is conducting research for his master's dissertation.

.....
Signature of the supervisor
(Dr. Chathura De Silva)

.....
Date

ABSTRACT

When it comes to human communication, lying is a common practice. Recently, the detection of lies has become an important focus of judiciary, law enforcement, and security, interviews, etc.[1] Due COVID-19 the pandemic of interviews being conducted online; this is a main problem where a person may give false information specially in the visa applying process. Nonverbal behavior is constantly being transmitted by humans in opposition to spoken language. where visual and auditory cues like facial expressions, postures, gestures, and nonverbal vocal sounds can be used to detect deception intelligently. These human signals are known as deception indicators, and they are primarily associated with deceptive communication. The hiring of unskilled workers can eventually lead to a company's demise if an online interviewer exaggerates or fabricates his or her abilities.

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LIST OF ABBREVIATIONS

Term	Definition
EEG	Long-term electroencephalographic
IOT	Internet of Things
WHO	World Health Organization
ANN	Artificial Neural Networks
SVM	Support Vector Machines
CMC	Computer Mediated Communication

Table 1 - List of abbreviations

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