Remote biometrics verification as a remedy to child abuse in cyberspace using IOT & Onion Routing

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Over 25 percent of adolescents and teens have been bullied repeatedly through their cell phones or the Internet [1]. Over 14 percent of teenage students have considered suicide, and almost 7 percent have attempted it [2]. This is a problem caused by technological advancement and now only technology can solve it. One cannot find any technical methodologies to solve this problem except a bunch of parental control applications. One can argue that biometric verification can be used to verify the identity but it suffers a huge architectural and security drawback as there are no standard protocols for this specific purpose. Local biometric verification cannot solve this problem. Remote biometric verification used in huge projects like Aadhar and KYC for different banking applications are vulnerable [3]. This paper is about making remote biometric verification more secure and nearly impossible to breach by using principles of IOT and Onion Routing. Complete anonymity is maintained during biometric verification which is ensured by the Onion Routing [4] and the biometric data needed for verification is captured by the IOT devices. This approach can not only be used to solve cyber bullying of children but also many similar problems.

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