

Attention Meets Certainty : A Practical Implementation of Deepfake Detection using CNN- RNN Architecture

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Abstract: *In recent years, the misuse of deepfake technologies has raised concerns across digital platforms. In this second phase of the project, we present a detailed implementation of the proposed model using Python and Tkinter, with no changes made to the algorithmic structure, but concentrating on module development, system architecture realization, and getting ready for experimental testing. The misuse of deepfake technologies has caused concerns on various digital platforms in recent years. In our previous research, we proposed a novel detection model that leverages Certainty-Based Attention with CNN and RNN. This paper describes the entire architecture, the integration process, and discusses the expected impact of this solution on real-world detection systems.*

Keywords: Deepfake, CNN, RNN, Certainty-Based Attention, Python, Tkinter, Fake Video Detection

