

DEEP FAKE DETECTION

TIER 4





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PROBLEM STATEMENT

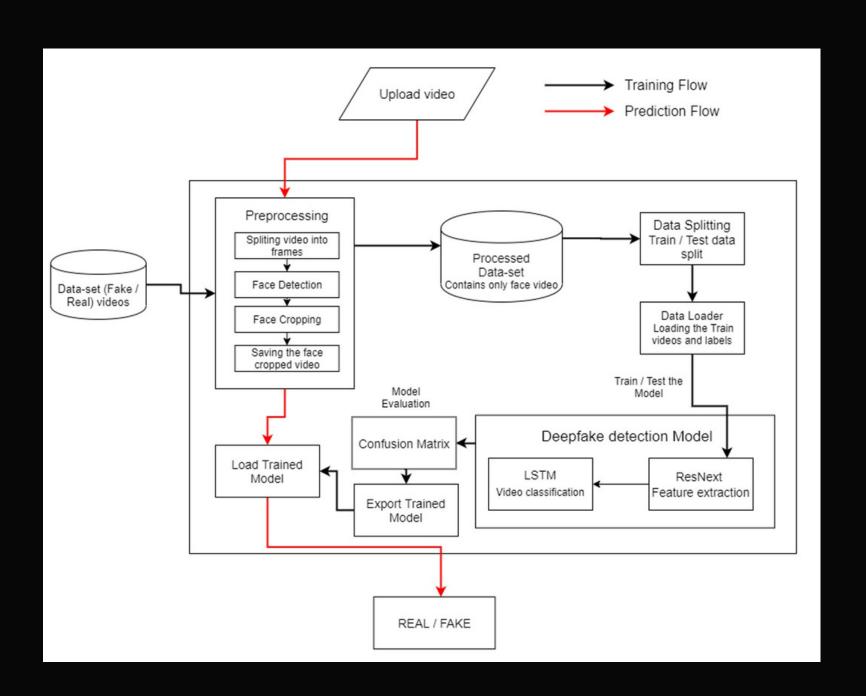


Deep fake technology poses a significant threat to various domains, including journalism, politics, entertainment, and security.- Detection of deep fakes is critical to prevent the spread of misinformation, defamation, and manipulation of public opinion.

SOLUTION



- ResNeXt CNNs extract hierarchical features, crucial for discerning manipulated content.
- LSTM networks analyze temporal dependencies, enhancing detection of sophisticated manipulations.
- Feature fusion techniques amalgamate information for a comprehensive media representation.
- Solution adapts to variations in deep fake techniques, ensuring effectiveness in dynamic environments.
- Scalability achieved through efficient resource allocation and model optimization.
- Continuous refinement based on emerging threats maintains high accuracy and reliability.

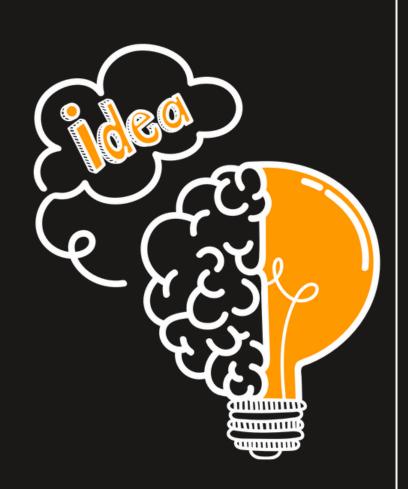




HOWIS YOUR SOLUTION UNIQUE

"Deep Fake Detection: Combating AI-Synthesized Media Manipulation"

- Integration of ResNeXt and LSTM networks for comprehensive spatial and temporal analysis.
- Multimodal feature fusion enhances detection robustness.
- Robust preprocessing and post-processing techniques improve model reliability.
- Diversity in training dataset ensures generalization capabilities.
- Ongoing adaptation to emerging threats ensures sustained effectiveness.
- Combination of advanced AI techniques underscores the importance of technological innovation in combating manipulation.
- Acknowledgment of detection challenges demonstrates a proactive approach to addressing the problem.





MEMBERS

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