FACE EXPRESSION DETECTION

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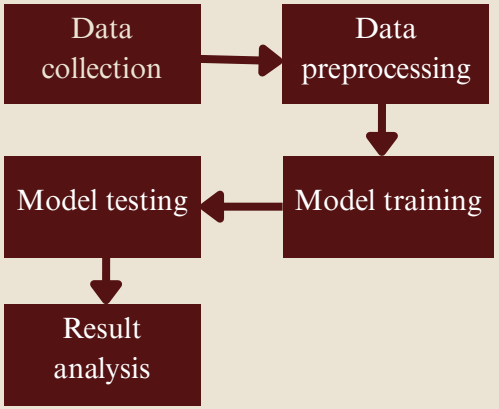
1.ABSTRACT

A deep learning-based model using Landing AI detects and classifies facial expressions such as happiness, sadness, anger, surprise, and neutral in real time. It enables applications in emotion analysis, security, and user experience enhancement with high accuracy and adaptability.

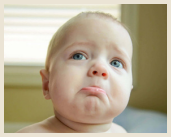
2.INTRODUCTION

Facial expressions convey critical emotional information in human communication. Using Landing AI, this project applies computer vision and deep learning to automatically recognize emotions from facial images, enabling efficient and accurate real-time analysis.

3.METHODOLOGY



4.INPUT/OUTPUT

Test image	Actual	Predicted	Result
	happy	happy	✓
	angry	angry	✓
	sad	sad	✓
	angry	sad	✗

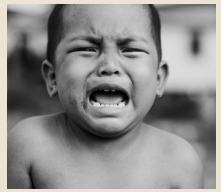
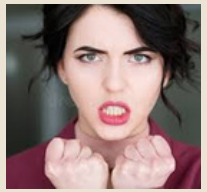
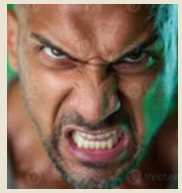
5.RESULT

The developed model accurately classified five major facial expressions—happiness, sadness, anger, surprise, and neutral—with high precision. It demonstrated robust performance in real-time detection, maintaining accuracy across different lighting, angles, and diverse facial features.

Accuracy of model= 93%

6.STEPS TO USE THE APPLICATION

Step 1 : Click a picture of sample from below

Step 2: Scan the QR Code
Step 3: Upload the picture

7.CONCLUSION

The Landing AI-based face expression detection model provides fast and reliable emotion recognition, proving effective for real-time applications. Its accuracy and adaptability make it suitable for diverse use cases in security, healthcare, and user experience enhancement.

8.REFERENCES

1.LandinAI: https://app.landingai/