FABRIC DETECTION

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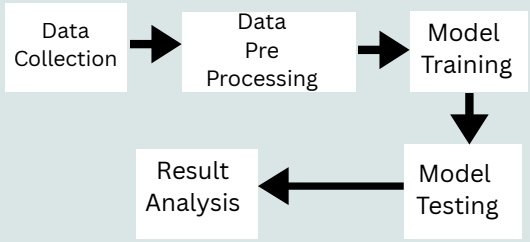
1.ABSTRACT

A fabric defect classification model uses advanced image processing and machine learning to analyze fabric images, providing accurate identification of torn, stained, and normal fabrics, enabling faster quality control in textile production.

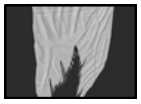
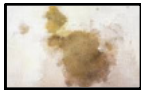
2.INTRODUCTION

The detection of defects such as tears and stains in fabrics is essential for maintaining product quality in the textile industry. Automating this process can significantly reduce inspection time, minimize human error, and ensure consistent quality standards in manufacturing

3.METHOLODOGY



4.INPUT/OUTPUT

Test Image	Actual	Predicted	Result
	Normal	Normal	✓
	Stained	Stained	✓
	Torn	Torn	✓
	Stained	Normal	✗

5.RESULTS

Accuracy of Model = 93%

7. CONCLUSION

The accuracy of the fabric defect classification model can be improved by training on larger and more diverse datasets, enabling better defect recognition under different lighting, textures, and fabric types, ultimately ensuring higher-quality textile production.

6.STEPS TO USE THE APP

1.Select The Sample Photos



2.Upload The Sample Photos

3.Click On Any Of The Photos

4.Scan The QR Code

8.REFRENCES

1.https://app.landing.ait

2 .https://www.kaggle.com