

SYNOPSIS OF THE PROJECT

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Shared folder/git repository details	https://github.com/sreethunair/Major_Project
Project Title	Contrast Enhancement-Based Forensics in Digital Images
<p>Description of Project:</p> <p>The project 'Image forensic tool' aims with detecting whether the image has undergone any compression or if it is embedded with a file. Forensic department mainly focuses on detecting any kind of malpractices done in the image, whereas the anti-forensic department tries to fool the forensic analyst by hiding the traces of compression. JPEG is the most commonly used image standard. JPEG has a property that it follows lossy compression which does not preserve all the bit values. So it leaves traces after the compression process. This enables the forensic analyst to determine whether the image is anti-forensically compressed by analyzing the histograms of original and suspected images. The histogram of original image exhibits a comb-shape which makes it different from the histogram of original image. Anti-forensic department further works to make the histograms same by adding a noise signal. The project deals with the forensic department detecting compressed image even if it contains the presence of noise signal.</p>	
Front end and Backend Tools	.NET, MS SQL Server

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