Digital Image Forensic Report

Analyzed File: Blank_diagram.png

Image Integrity Hashes

Algorithm	Hash Value
MD5	1b2be6f1f93b41a58060f089ee11440d
SHA-1	1f3f67bcb3b6f0f4ee2f2f429a6914bfb6e579b2
SHA-256	3bbfdf699487bfd878994bad5e3e4b904f998c40368cac66e21c1f2010845e25

Extracted EXIF Metadata

Status	No EXIF data found.

Error Level Analysis (ELA)

Regions with high variation (brighter areas) may indicate potential digital alteration, as they have a different compression history from the rest of the image.

User

Unprocessed Image/Text Msg

Unprocessed Image/Text Msg

Frontend Interface
HTML/CSS/JS

Unprocessed Image/Text Msg

Unprocessed Image/Text Msg

Flask API
Request Router

2a. Route Chat Request

2b. Generated/Text Response

4a. Route Image Request

4b. Return Enhanced Image

Chatbot Engine
Fuzzy Matching Response Builder

Real-ESRGAN Module
Deep Learning Processor

3a. Retrieve Question Data

3b. Return Matching Data

4c. Load Model/Weights

Data Stores

knowledge_base.json

Pre-trained .pth Model File