Import cv2

Import numpy as np

# Load the reference image (real note)

Original = cv2.imread(‘currencyog.jpg’, 0)

# Load the test note image

Test = cv2.imread(‘dupemoney.jpg’, 0)

If original is None or test is None:

Print(“❌ Image not found! Check file names.”)

Exit()

# ORB detector

Orb = cv2.ORB\_create()

# Find keypoints and descriptors

Kp1, des1 = orb.detectAndCompute(original, None)

Kp2, des2 = orb.detectAndCompute(test, None)

# Brute-force matcher

Bf = cv2.BFMatcher(cv2.NORM\_HAMMING, crossCheck=True)

Matches = bf.match(des1, des2)

# Sort matches by distance

Matches = sorted(matches, key=lambda x: x.distance)

# Calculate match percentage

Try:

Match\_percent = (len(matches) / len(kp1)) \* 100

Except ZeroDivisionError:

Match\_percent = 0

Print(f”🔍 Match Accuracy: {match\_percent:.2f}%”)

# Decision logic

If match\_percent > 40:

Print(“✅ This note is likely REAL.”)

Else:

Print(“❌ This note may be FAKE or too blurry/low-quality.”)

# Show match visualization

Result = cv2.drawMatches(original, kp1, test, kp2, matches[:20], None, flags=2)

Cv2.imshow(“Currency Note Matching”, result)

Cv2.waitKey(0)

Cv2.destroyAllWindows()