





























### III. Performance Analysis of proposed VC based Extraction of secret data:

In this segment, the presentation of the anticipated VC related removal of secret data is examined. Therefore, the NC value is calculated among the innovative and removed secret image. The calculated NC value is specified in the beneath Table 6.

Table 6: Normalized Correlation between original and extracted secret image

Normalized Correlation					
Delta	0.6	0.7	0.8	0.9	1
Twitter-logo (Retrieved Secret image)	0.997375	0.997131	0.997253	0.997314	0.997314

In Table 6, it is obvious that the NC is elevated if the delta is identical to 0.6. Additionally, the NC is 0.997314 for the delta values 0.9 and 1.0. On the other hand, the entire values are illustrating that the effectiveness of the anticipated algorithm is 0.997.

### 6. Conclusion

In this document, an effectual protected VC format is executed by the aid of customized Signcryption algorithm. The anticipated VC format is established to conquer the complexity to handle the insignificant distributions. Furthermore, the anticipated VC format offers elevated defense through signcrypting the consequential distributions and afterwards permitting decryption of distributions only if the password related validation is accomplished. The presentation of the anticipated VC format is investigated at each phase (i.e. for the period of embedding, after decryption, and for the period of removal) through examining the enhanced images. The consequence illustrates the exceptional presentation effectiveness of the anticipated process.

#### Compliance with Ethical Standards

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