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| **S.NO** | **Lossy Compression** | **Lossless Compression** |
| 1. | Lossy compression is the method which eliminate the data which is not noticeable. | While Lossless Compression does not eliminate the data which is not noticeable. |
| 2. | In Lossy compression, A file does not restore or rebuilt in its original form. | While in Lossless Compression, A file can be restored in its original form. |
| 3. | In Lossy compression, Data’s quality is compromised. | But Lossless Compression does not compromise the data’s quality. |
| 4. | Lossy compression reduces the size of data. | But Lossless Compression does not reduce the size of data. |
| 5. | Algorithms used in **Lossy** compression are: Transform coding, [Discrete Cosine Transform](https://www.geeksforgeeks.org/discrete-cosine-transform-algorithm-program/amp/), Discrete Wavelet Transform, fractal compression etc. | Algorithms used in **Lossless** compression are: [Run Length Encoding](https://www.geeksforgeeks.org/run-length-encoding/amp/), [Lempel-Ziv-Welch](https://www.geeksforgeeks.org/lzw-lempel-ziv-welch-compression-technique/amp/), [Huffman Coding](https://www.geeksforgeeks.org/huffman-coding-greedy-algo-3/amp/), Arithmetic encoding etc. |
| 6. | Lossy compression is used in Images, audio, video. | Lossless Compression is used in Text, images, sound. |
| 7. | Lossy compression has more data-holding capacity. | Lossless Compression has less data-holding capacity than Lossy compression technique. |