

CHAPTER 5

FINAL RESULT

5.1 Result Discussion

In today's world we know the importance of encryption and privacy and with data being the most prized possession it is more important than ever to protect that data. Therefore by keeping that as our motivation in our minds we started this project. And finally after the completion of this project we have found that using digital watermarking for enhanced signal protection is the most convenient way to target the masses and make audio encryption a better part of everybody's lives. That is why after analyzing 20+ literature reviews 5+ algorithms in the field of audio encryption we came up with the idea of digital watermarking. And we are proud to present the result of our experiment for the same where we have seen that digital watermarking strikes a perfect balance between audio encryption and capital spent/encryption. Therefore to lay bare the final results of our work in a comprehensive form we have summarized the gist of the above work of 40+ pages into the table as the result of our work:

Table 5.1 - Result Comparison

TESTING PARAMETERS	Digital Watermarking Of Audio Signal	Discrete Wave Transform Method	Quantum Discrete Cosine Transform Method	Traditional Overlapping Signal Tone Method
High system specs. required?	NO	YES	YES	NO
Additional hardware required?	NO	YES	NO	NO
Requires integration of AI and ML?	NO	NO	YES	NO
Fluctuating results?	NO	NO	YES	NO
Damage to the original audio?	NO	NO	YES	YES
Receiver's needs integrated?	YES	YES	NO	NO
Dynamic real time encryption?	YES	YES	NO	NO
Can handle complex files?	NO	YES	YES	NO
Additional security can be added?	NO	YES	YES	NO