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DATA DEDUPLICATION USING ENHANCED FILTERING MECHANISM

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Abstract : Deduplication is done to reduce system memory by eliminating data duplicates while they are stored. This involves chunking the data into many number of chunks using fixed chunking and creating Hash values of them using cryptographic encryption SHA-2. This Hash values are used for finding duplicates. The duplicates are identified and eliminated from being stored in the memory using the proposed system called EFM – Enhanced filtering mechanism. The EFM uses Bloom's filter to select duplicates and they are dynamically eliminated from being stored in the system. This efficiently reduces memory usage as well as saves time.