Cybersecurity Daily Dairy

Day 23 – Project Work: AudioCrypt (GUI Design and Conversion Module)

Date: 16 July 2025
Activity: GUI and Audio Conversion Implementation

Description:
On this day, I focused on developing the **Graphical User Interface (GUI)** for the AudioCrypt project using **Tkinter** with a dark theme. The GUI was designed to allow users to easily select audio files, enter passwords, and perform encryption/decryption through simple button clicks.

I also added support for **MP3 to WAV conversion** using the **pydub** library, enabling broader compatibility with various audio formats. This helped ensure that even users with MP3 files could use the application without manual format conversion.

Efforts were made to optimize the user interface layout, improve error handling, and display status messages during encoding or decoding operations.

Outcome:

- Fully functional GUI created with a user-friendly interface.

- Added MP3-to-WAV conversion functionality.

- Improved overall usability and cross-format compatibility.

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