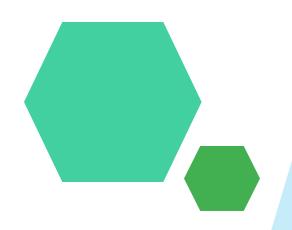


## Manaswini Guntaka

**Final Project** 



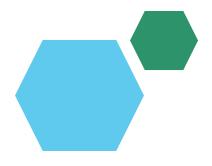
# KEYLOGGER AND SECURITY

# **AGENDA**

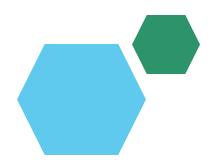
- Introduction
- Problem Statement
- Project Overview
- Who Are The End Users
- Solution and Value Proposition
- The "Wow" Factor in Our Solution
- Modelling
- Results



# INTRODUCTION



- Key loggers also known as keystroke loggers, may be defined as the recording of the key pressed on a system and saved it to a file, and the that file is accessed by the person using this malware. Key logger can be software or can be hardware.
- Working: Mainly key-loggers are used to steal password or confidential details such as bank information etc.



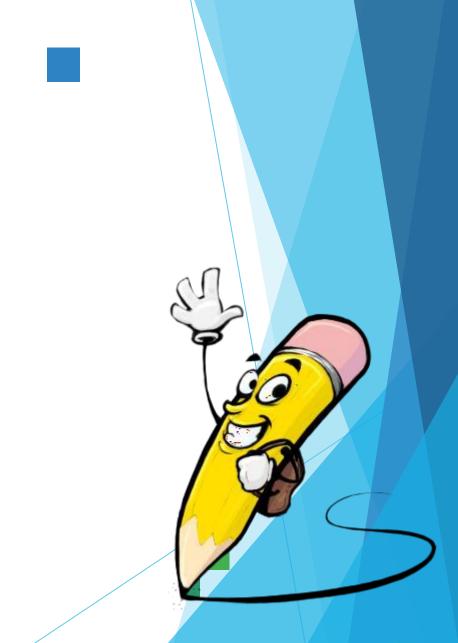
## PROBLEM STATEMENT

- Keyloggers are a significant threat to cybersecurity, leading to unauthorized access to sensitive information, identity theft, and financial fraud.
- Affects individuals, businesses, and organizations by compromising data privacy and security.



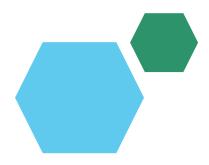
## PROJECT OVERVIEW

• Develop a comprehensive understanding of key loggers, their types, how they work, and effective security measures to prevent keylogging attacks.



#### WHO ARE THE END USERS?

• End users are the individuals within an organization who interact with various digital platforms, applications, and devices daily. They are often the first line of defense against cyber threats.



### YOUR SOLUTION AND ITS VALUE PROPOSITION



- 1. Anti-Key-logger
- 2. Anti-Virus
- 3. Automatic form filler
- 4. One-Time-Passwords
- 5. Patterns
- 6. Voice to Text Converter

#### YOUR SOLUTION AND ITS VALUE PROPOSITION

- 1. Anti-Key-logger As the name suggest these are the software which are anti / against key loggers and main task is to detect key-logger from a computer system.
- 2. Anti-Virus Many anti-virus software also detect key loggers and delete them from the computer system .These are software anti-software so these can not get rid from the hardware key-loggers.
- 3. Automatic form filler This technique can be used by the user to not fill forms on regular bases instead use automatic form filler which will give a shield against key-loggers as keys will not be pressed .
- 4. One-Time-Passwords Using OTP's as password may be safe as every time we login we have to use a new password.
- 5. Patterns or mouse-recognition On android devices used pattern as a password of applications and on PC use mouse recognition, mouse program uses mouse gestures instead of stylus.
- 6. Voice to Text Converter This software helps to prevent Keylogging which targets a specific part of our keyboard.

## THE WOW IN YOUR SOLUTION

- •Innovative Approach: Combining technical measures with user education for comprehensive protection.
- •Demonstration: Real-time demonstration of a simple keylogger to illustrate the threat and the effectiveness of security measures.
- •Impact: Significant reduction in the likelihood of keylogging attacks through proactive measures.

# **MODELLING**

• Installing Required Libraries

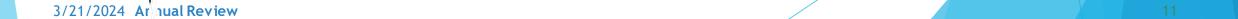
Before we begin, we need to install a particular library, which we can do with the

#### pip command:

pip install pynput and pip install jsonlib.

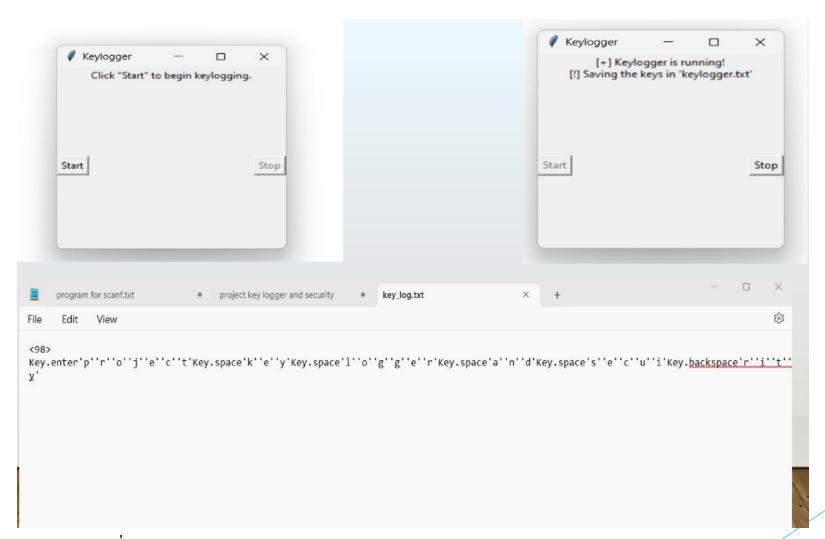
• Importing Required Libraries pynput:

This will help us read the keystrokes as the user types in stuff JSON is a lightweight data-interchange format. It is often used for exchanging data between a web server and user agent



- Initialization:
- Set up the main GUI window.
- Initialize global variables for key logging.
- Event Capture:
- Start capturing key events when the "Start" button is pressed.
- Log key press and release events.
- Data Logging:
- Continuously update text and JSON log files with captured key events.
- Stop Logging:
- Stop capturing key events when the "Stop" button is pressed.
- Update the GUI status to indicate the keylogger is stopped.

# **RESULTS**



# **RESULTS**

- Successfully implemented a keylogger that captures keystrokes and records them into both text and JSON files.
- Real-time keylogging with start and stop functionality controlled via a simple GUI.
- The keylogger project demonstrated the capability to effectively capture and log keystrokes in real-time.
- The GUI provided a user-friendly way to control the keylogger, making it accessible and easy to use.
- Emphasized the ethical use of keyloggers and the importance of implementing security measures to protect against malicious use.

https://github.com/manaswini1234456/Apssdc.git

#### THANK YOU