

## Smart Key logger with Remote Access & Encrypted using Python

### Dr. Indhuja

Assistant Professor, Department of Computer Science and Engineering, Kalasalingam Academy of Research and education, Krishnankoil, India

### Dandu Harsha Vishnu Vardhan

Department of Computer Science and Engineering, Kalasalingam Academy of Research and education, Krishnankoil, India

### Yerragudi Deveswara Reddy

Department of Computer Science and Engineering, Kalasalingam Academy of Research and education, Krishnankoil, India

### PoreddyDeeraj Reddy

Department of Computer Science and Engineering, Kalasalingam Academy of Research and education, Krishnankoil, India

### Malige Afwan

Department of Computer Science and Engineering, Kalasalingam Academy of Research and education, Krishnankoil, India

### Abstract:

A secure and encrypted keylogging framework is presented in the following paper written in Python and Flask. The main objective of the proposed system is to facilitate the monitoring of the endpoint activity in a secure and privacy-controlling ethical way. The framework captures and logs keystroke and clipboard data on the client machines, encrypts the logs with AES-based Fernet encryption and sends them to a remote Flask server which stores and analyzes them. In contrast to the traditional keyloggers that can always work in plaintext and are prone to abuse, the given system is concerned with confidentiality, integrity, and ethical consciousness. The server side decrypts logs which are then sorted based on date and time so as to have them monitored in a structured manner. The dashboard is a web-based application, which is developed using HTML, CSS, and Bootstrap, to allow users to view logs in real-time with a search and theme and download option. This application is one of the fundamental foundations of ethical cybersecurity studies and can be expanded.

### Keywords:

Keylogger, AES Encryption, Flask, Remote Monitoring, Secure Log Management, Endpoint Security, Cybersecurity Awareness.