

performance.

- **Improved user interface:** The system can be improved with a more intuitive and user-friendly interface for security personnel, enabling them to more effectively monitor and respond to potential security threats.

**6.6 Glossary:** A list of technical terms and acronyms used in the project and their definitions.

- **Object Detection:** The process of identifying and locating objects within an image or video feed.
- **Motion Detection:** The process of detecting movement within an image or video feed, typically used to trigger alerts or notifications.
- **YOLOv3:** A deep learning algorithm used for object detection, which stands for "You Only Look Once" version 3.
- **OpenCV:** An open-source computer vision library used for image and video processing.
- **Streamlit:** A Python library used for building interactive web applications for data science and machine learning.
- **Twilio:** A cloud communications platform used for sending SMS messages and making voice calls.
- **TensorFlow:** An open-source machine learning library developed by Google, used for building and training deep learning models.
- **GPU:** A Graphics Processing Unit, a specialized hardware component used for accelerating the processing of large amounts of data, commonly used in machine learning and other computationally intensive tasks.
- **Raspberry Pi:** A small, low-cost computer used for building hardware prototypes and small-scale projects.
- **Real-time Analytics:** The process of analyzing data as it is generated in real-time, typically used for detecting anomalies, predicting future events, or making decisions based on the current situation.