Plan Overview

A Data Management Plan created using DMPonline

Title: Intelligent security surveillance system with behavior analysis and suspect tracking.

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Project abstract:

The research focuses on the design and implementation of AI based electronic surveillance systems which can interpret the behavior of people around and tracking capabilities for people who would have carried out suspicious behavior. With the introduction of smart city technologies, increased crime rate and the difficulties in identifying all movements through manual surveillance, it has become an issue of paramount importance to consider the use of AI powered surveillance systems. The study looks at current technologies such as YOLOv8, DeepFace, smart camera network and the implementation of a solution that combines all the features to provide a high level security alert system.

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Intelligent security surveillance system with behavior analysis and suspect tracking.

Data Collection

What data will you collect or create?

Labelled video data

How will the data be collected or created?

Use public or synthetic datasets (e.g., UCF Crime, PETS)
Test environments.

Documentation and Metadata

What documentation and metadata will accompany the data?

Datasets
Real-world simulations

Ethics and Legal Compliance

How will you manage any ethical issues?

Ensure compliance with privacy laws (e.g., GDPR);
Anonymize data where possible - data encryption

How will you manage copyright and Intellectual Property Rights (IPR) issues?

License the data
Register the data as trade mark

Storage and Backup

How will the data be stored and backed up during the research?

Google drive
Google docs

How will you manage access and security?

Encryption
Passwords

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

All data

What is the long-term preservation plan for the dataset?

Cloud
Digital/ electronic archives
GitHub

Data Sharing

How will you share the data?

Work space
Mendeley
Figshare
Deposit in data repository

Are any restrictions on data sharing required?

No

Responsibilities and Resources

Who will be responsible for data management?

Brian Charingirah
Kudzai Tome

What resources will you require to deliver your plan?

Storage costs
Hardware
Software
Staff time
Costs of preparing data for deposit
Repository costs