COSC2615 Advance Professional Development

Assignment 1 Written Research Report



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Abstract

The Los Angeles Police Department (LAPD) is a prime example of data-driven policing, which has transformed law enforcement through cutting-edge technology and analytics. But ethical questions about privacy, accountability, and civil liberties have surfaced. This paper explores the complex ethical conundrums that data-driven policing raises, looking at stakeholder duties, legal frameworks, and community effects.

The massive collection of sensitive information as well as dependence on algorithms present significant ethical challenges that increase societal inequality and pose privacy risks. Each stakeholder has a specific role and responsibility in resolving these issues, including law enforcement, support organisations, citizens, sufferers, suspects, and tech vendors.

The judiciary in Australia provides channels for individuals affected by illegal data use to seek accountability and relief. Improved oversight, transparency initiatives, algorithmic prejudice prevention, and diversity training are some of the suggested remedies. A case study demonstrates the moral dilemmas associated with data-driven policing, highlighting the significance of putting recommended remedies into practice to lessen harm and encourage moral behaviour.

Introduction

By utilising cutting-edge analytics and technology, data-driven policing—best illustrated by the actions of the Los Angeles Police Force (LAPD)—has completely transformed law enforcement tactics. However, there has been some controversy surrounding this novel approach as ethical issues pertaining to civil liberties, privacy, and transparency have surfaced.

To guide decisions about how to allocate resources, avoid crime, and enforce the law, data-driven policing involves gathering, analysing, and applying large amounts of data. Some who support it point out how it could improve efficiency and public safety, while others point out the moral dilemmas that come with putting it into practice. Massive data sets about people are being accumulated, which poses serious privacy issues and casts doubt on conventional ideas of personal autonomy and monitoring. A further risk of bias and discriminatory results is introduced by the dependence on algorithms and predictive models, which could exacerbate already-existing societal inequalities.

This paper explores the moral conundrums raised by the LAPD's use of data-driven policing by looking at the intricate relationships that exist between technology, legal procedures, and public values. This report aims to shed a spotlight on the ethical issues surrounding data-driven policing through a review of pertinent facts, stakeholder opinions, legal factors, suggested remedies, and a case study. By doing this, we hope to further the current conversation about the morally and responsibly applying technology to law enforcement while taking the Australian IT sector into account.

This report will be organised as follows: an introduction, a background analysis, stakeholder opinions, legal factors, suggested solutions, as well as a case study demonstrating the ethical

conundrums in real-world situations will all be included. The report will end with an overview of the most important discoveries, suggestions, and things to think about for further study and action. By using this methodical approach, we hope to offer a thorough analysis of the moral dilemmas raised by data-driven policing and encourage more research into this important field of study.

Background Analysis

An increasingly common tactic used by law enforcement organisations across the globe, like the Los Angeles Police Force (LAPD), is data-driven policing. The background information, pertinent facts, parties involved, their responsibilities, the moral principles and societal ramifications of data-driven policing in Los Angeles are all thoroughly examined in this section

Known Relevant Facts

As a component of its data-driven policing efforts, the LAPD has installed automated licence plate readers (ALPRs) outside of emergency rooms. The LAPD can collect information on cars coming into and going out of the area thanks to this practice, which is supposedly used to find possible suspects or victims' associates. The extent of tracking and the possibility of privacy violations are concerns raised by this technology, even though it might help with criminal investigations.

Furthermore, the Stop LAPD Spying Coalition has put forward a strong case against the application of data analytics to law enforcement. The coalition has brought attention to privacy violations, biases in algorithms, and the absence of transparency related to the LAPD's surveillance operations via public advocacy and activism. These worries highlight the requirement for increased transparency and control over how law enforcement organisations use technology.

The LAPD has been under pressure to be more accountable and transparent in addressing public concerns. To evaluate adherence to legal requirements and ethical standards, the department's utilisation of technology, which includes data analytics tools, was audited by the capital's Office of the Inspector General. In addressing the public's issues and guaranteeing the appropriate use of technology in law enforcement operations, this audit is a major step in the right direction.

Stakeholders

The following parties are engaged in the conversation in Los Angeles about data-driven policing:

- LAPD: The LAPD is the main law enforcement organisation in the city and oversees maintaining public safety while protecting civil rights and making sure that policing procedures are transparent.
- Stop LAPD Spying Coalition: Regarding the use of monitoring technologies in particular, this advocacy group speaks for the needs of the public in promoting transparency in law enforcement and privacy rights.

- Citizens of Los Angeles: Locals have a basic right to privacy as well as defence against arbitrary law enforcement agency targeting and monitoring.
- Victims and Suspects: Targets of data-driven policing tactics, whether they are suspects or victims, have an interest in seeing to it that law enforcement treats them fairly and morally.
- Technology Vendors: It is the duty of companies providing analytical software to law enforcement organisations to prioritise the ethical application of these tools and to reduce bias within data-driven policing.

Duties and Obligations of Stakeholders

Each party with a stake in Los Angeles' data-driven policing has specific responsibilities and responsibilities:

- LAPD: The LAPD is responsible for maintaining safety for everyone while upholding civil liberties, guaranteeing openness regarding policing procedures, and abiding by moral guidelines when using technology.
- Stop LAPD Spying Coalition: Holding the LAPD responsible for its monitoring practices, the coalition has a duty to promote privacy rights, openness, and transparency in law enforcement procedures.
- Citizens: To guarantee that their rights are respected, residents must actively participate in advocacy campaigns. They have a right to confidentiality and protection from arbitrary monitoring.
- Technology Vendors: Prioritising ethical development and providing tools that reduce bias and advance impartiality in data-driven police operations are essential for companies that supply data analytics tools.

Ethical Values and Social Impacts

The use regarding data-driven security in Los Angeles brings up several moral issues and societal implications:

- Ethical Values: Several important ethical principles are at risk, including accountability, justice, fairness, and confidentiality. To guarantee the ethical and responsible use of technology in security operations, the LAPD along with other stakeholders must strike a balance between these values.
- Social Impacts: Data-driven policing may contribute to the continuation of ethnic discrimination, and a decline in public confidence in law enforcement. In addition, unfair surveillance methods might discourage community involvement and law enforcement agencies' cooperation.

Legal Recourse Available in Australia

Australia has a thorough legal system that regulates surveillance methods, data privacy, and law enforcement accountability. This section looks at the legal options Australia has when it comes to data-driven policing. These options include data privacy laws, monitoring regulations, and legal channels for people who have been harmed by illegal utilisation of data analytics.

The Privacy Act 1988 along with the Australian Privacy Principles (APPs) are the main pieces of legislation that govern Australia's data privacy laws. These rules set forth the procedures that organisations, including law enforcement agencies, must follow when gathering, using, and disclosing personal information. The guiding principles place a strong emphasis on getting informed consent, preserving data accuracy, and defending people's right to privacy.

Australia possesses laws covering accountability within law enforcement and surveillance operations in along with data privacy laws. The Telecommunications (Interception and Access) Act of 1979 and the Surveillance Devices Act of 2004 govern how law enforcement organisations utilise surveillance devices and intercept communications. These laws set tight guidelines for obtaining warrants, carrying out surveillance, and defending people's right to privacy.

Legal repercussions for unethical or illegal utilisation of surveillance technologies could affect law enforcement agencies, technology vendors, and other participants engaged in data-driven policing. When using data analytics tools, law enforcement organisations must follow legal requirements and legal procedures to guarantee compliance with privacy laws and avoid abuses of power. If this isn't done, there could be legal ramifications, such as civil litigation, regulatory enforcement decisions, and adverse publicity.

Like this, tech companies that provide law enforcement organisations with data analytics tools run the risk of facing legal repercussions if their goods lead to discriminatory practices or privacy violations. It is the duty of vendors to create and provide products that minimise bias, emphasise ethical use, and abide by laws pertaining to surveillance and data privacy.

There may be several legal options for people whose lives are negatively impacted by the illegal utilisation of data analytics by law enforcement. These include bringing legal action to obtain damages or an injunction, filing complaints with the appropriate regulatory bodies, which include the Office of the Australian Information Commissioner (OAIC) as well as state-based privacy commissioners, or pushing for legislative changes that will improve accountability and safeguard individual rights.

Proposed Solutions to Ethical Challenges in Data-Driven Policing

Data-driven policing raises ethical concerns about privacy, bias, and transparency. To address these issues, various solutions can be put in place to encourage law enforcement to use technology responsibly and ethically. This section offers suggestions for improving accountability and oversight as well as reducing bias caused by algorithms in analytical software employed by law enforcement.

Enhanced Oversight and Accountability

Creating autonomous oversight bodies with the responsibility of keeping an eye on the application of data analytics to law enforcement is one suggested remedy. These oversight organisations would be able to examine and assess law enforcement procedures to make sure they adhere to moral principles, legal requirements, and community norms. These organisations can aid in preventing power abuses and guaranteeing transparency in policing procedures by offering impartial inspection and oversight.

To improve accountability and foster community trust, carrying out transparency measures is a crucial additional solution. Public reports on data collection procedures, algorithmic decision-making procedures, and the results of data-driven policing projects are all included in this. Transparency initiatives can increase public confidence in policing practices by giving citizens insight towards law enforcement operations and decision-making processes. They additionally allow citizens in holding authorities accountable.

Algorithmic Bias Mitigation

It is imperative to establish evaluations of bias and mitigation procedures over data analytics tools utilised by law enforcement organisations to deal with potential adverse effects in data-driven policing. Under these protocols, prejudices in algorithms, data sources, and methods of decision-making would be identified and addressed through routine assessments. Law enforcement organisations can reduce the possibility of unfair outcomes and advance equity in policing techniques by proactively addressing bias.

Giving law enforcement employees who interpret data and make decisions training on variety and sensitivity is another essential remedy. The goal of these training courses would be to increase knowledge of the unconscious prejudices and cultural sensitivity that can affect officers' judgements and perceptions. Training programmes can help reduce bias in interpreting information and decision-making, resulting in improved equity in policing practices, by promoting a greater comprehension of diverse perspectives.

The successful implementation of the suggested solutions necessitates cooperation and dedication from law enforcement organisations, legislators, technology suppliers, and community members. To address ethical issues and advance justice, accountability, and trust in law enforcement processes, stakeholders can collaborate by giving supervision, transparency, and bias mitigation top priority in data-driven policing practices.

Case Study: Ethical Dilemmas in Data-Driven Policing

Scenario

The LAPD launches an innovative data-driven policing action in the busy metropolis of Los Angeles with the goal of lowering the rates of violent crimes in areas with high crime rates. Predictive data analysis is being used by those in charge to find "hot spots" and assign officers to patrol them beforehand. As the programme progresses, it becomes evident that police measures are significantly directed towards specific communities, primarily minority and low-income neighbourhoods.

The data-driven programme has resulted in an increase in the police presence in a particular area, South Central Los Angeles. Conflicts between residents and law enforcement have increased because of residents' reports of harassment and intimidation from frequent police patrols. Furthermore, data analysis indicates that people of colour are the primary target of arrests and references in these neighbourhoods, increasing concerns about prejudiced policing and racial profiling.

Application of Proposed Solutions

Improved Responsibility and Oversight:

Independent oversight bodies are set up to oversee the data-driven policing initiative's execution to address the ethical issues it raises. These oversight bodies carry out audits and assessments on a regular basis to make sure that laws and moral principles are being followed. After analysing how the programme has affected South Central Los Angeles, supervision bodies find instances of disproportionate enforcement and suggest remedies.

Measures of transparency are also put in place to improve accountability and foster community faith. The LAPD releases in-depth reports on its methods for gathering data, its computation decision-making procedures, and the results of its data-driven policing programme. These reports give community members a chance to express opinions and offer feedback while also illuminating the reasoning behind police tactics.

Mitigate Algorithmic Bias:

Implementing bias evaluation and prevention protocols is a response to the possibility over bias in predictive analytics that are utilised in the data-driven policing initiative. The LAPD works with data scientists as well as people in the community to assess the algorithms for biases that may be present and create countermeasures. The algorithms are improved through extensive validation and testing procedures to reduce the possibility of discriminatory results.

The law enforcement personnel participating in the data-driven policing risks are also given access to variety and sensitivity education programmes. Officers are trained to identify and deal with cultural sensitivity, implicit bias, and the possible effects of their conduct on a variety of communities. These training courses seek to advance just and equitable policing methods by encouraging a higher level of consciousness and comprehension.

Evaluation of Effectiveness

To address the ethical issues and decrease damage in the case study scenario, the suggested solutions are crucial. A framework for observing and assessing the data-driven policing responsibility is provided by strengthened oversight and accountability procedures, guaranteeing that it complies with moral principles and upholds the rights of those affected by it. Measures of transparency encourage transparency and responsibility, which strengthens community and law enforcement trust and cooperation.

Algorithmic prejudice prevention protocols as well as diversity training programmes serve both to encourage fair and equitable policing procedures and reduce the likelihood of discriminatory outcomes. These initiatives help to create better and more equitable policing practices by dealing with implicit biases in algorithms and raising officers' awareness of them.

Overall, this case study scenario application of the suggested solutions shows how effective they are at resolving moral conundrums and encouraging moral behaviour in data-driven policing. Law enforcement agencies can successfully navigate the challenges of data-driven policing while maintaining high standards of ethics and building trust with the citizens they serve by combining surveillance, transparency, bias prevention, and training.

Conclusion

The Los Angeles Police Department (LAPD) is a prime example of data-driven policing, which is an evolution in law enforcement tactics that uses modern analytics and equipment to improve preventative measures and investigation. But this strategy has raised serious ethical questions about privacy, transparency, as well as civil liberties.

This report has shed light on the complex interactions among technology, legal structures, and social norms by providing a thorough analysis of the ethical conundrums raised by data-driven policing. Through a thorough analysis of relevant data, viewpoints from stakeholders, legal implications, suggested remedies, and a case study, our goal has been to enhance comprehension of the moral dilemmas present in this developing field.

The LAPD's use of automated licence plate readers (ALPRs) outside of hospitals serves as an example of the privacy violations and security risks that come with data-driven policing. The Stop LAPD Spying Coalition and other advocacy groups have expressed concerns, which highlight the need for increased accountability and transparency in law enforcement procedures. The city's Office finds that the Inspector General's audit is a step in the right direction towards resolving public concerns and guaranteeing responsible technology use.

Every participant in the data-driven policing discussion has a specific role and responsibility, which includes law enforcement organisations, advocacy groups, citizens, suspects, victims, and technology companies. Law enforcement must strike a balance between civil liberties, openness, and moral behaviour in addition to public safety. In developing and implementation of data analytics tools, technology companies should give ethical growth and accountability top priority.

The ethical principles of accountability, justice, equity, and privacy are critical in assisting with the intricate process of data-driven policing. The consequences that biased methods and prejudiced practices have on society highlight the necessity of taking proactive steps to reduce bias and advance equity in law enforcement.

Individuals affected by the illegal utilisation of data analytics in policing in Australia have access to a structure for accountability as well as relief through legal recourse, which includes monitoring regulations and information privacy laws. Legal remedies protect private rights and guarantee adherence to the law. These remedies include lawsuits and regulatory enforcement actions.

Solutions that have been put forth include enhanced supervision and transparency, algorithmic bias prevention, and other approaches that provide a way to address moral issues and encourage the appropriate use of modern technology in law enforcement. Data-driven policing techniques can benefit from increased accountability, transparency, and fairness using outside oversight organisations, accountability measures, evaluations of bias guidelines, and diversity training initiatives.

The case study that highlights the moral conundrums in data-driven policing emphasises how crucial it is to put suggested fixes into practice to minimise harm and encourage moral behaviour. Law enforcement organisations can navigate the moral difficulties of data-driven policing while maintaining public confidence and faith by implementing improved oversight, accountability measures, bias prevention procedures, and diversity training.

In conclusion, law enforcement organisations can maximise the benefits of data-driven policing to protect people's liberties and rights while enhancing public safety by accepting ethical principles and implementing proactive measures. By working together, communicating, and keeping an eye on things, stakeholders can certain that data-driven policing techniques follow moral guidelines and make communities safer and more equitable.

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Appendix

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