

ML Essay (600 – 750 words) – Choose one title:

Privacy in the age of AI

“Navigating the ethical dimensions of machine learning”

Privacy during the age of AI has become more of a threat every year. Artificial intelligence (AI) has become very beneficial to businesses, governments and organizations who use it for making better decisions and gaining information. However, privacy concerns are more important from the exponential growth in the amount of data we collect and exchange online. Therefore it is crucial to understand how AI affects our personal privacy.

Challenges with AI

Since AI systems use complex algorithms, their use poses a risk to the privacy of both individuals and organizations. As AI develops, it will be able to make judgements based on small patterns in data that are hard for people to see. This means that people could never know that decisions impacting them are being made using their personal data. The potential for AI to be exploited to violate privacy is one of the primary concerns. Large volumes of (personal) data are needed for AI systems, and if this data ends up in the wrong hands, it could be exploited for criminal activities like identity theft or cyberbullying.

Replacing workers jobs

Another Challenge that AI creates is the risk of replacing people's jobs. AI systems are becoming more capable of carrying out jobs previously completed by humans. This may result in people having to retrain for new tasks, losing their jobs, and experiencing economic disruption in some industries. Certain businesses employ artificial intelligence (AI) algorithms to evaluate job candidates, examining their online behavior and social media posts to determine if they are qualified for a given position. Since job applicants might not be aware that their data is being collected and used in this manner, this raises concerns regarding both privacy and the accuracy of the data being used.

Data use by AI

The way AI technology gathers and uses data is one of its biggest effects. AI systems are made to analyze huge volumes of data to learn and improve. Because of this, concerns about data protection and privacy are raised by AI systems collecting more personal data.

All it takes to see how our data—articles, photos, videos, and so on—is being used is a glance at any of the many generative AI tools under development, like ChatGPT, Stable Diffusion, and others, frequently without our knowledge or permission.

AI surveillance

Surveillance is one of the most contentious applications of artificial intelligence. Although AI-based surveillance technologies hold great promise for improving security and law enforcement, they also seriously jeopardize civil liberties and privacy. Although using AI-based surveillance systems to combat crime and terrorism may seem like a good idea, it poses issues with civil liberties and privacy. Opponents claim these systems can violate people's civil liberties and freedom by monitoring and controlling them. In the era of artificial intelligence, the European Union (EU) Parliament has just made a major advancement in the protection of personal privacy. A proposal to outlaw AI surveillance in public areas has gained support from most of the EU Parliament. Under this idea, face recognition and other AI monitoring technologies would not be allowed in public spaces unless there is a clear threat to public safety. This choice is in line with the growing apprehension around the possibility that AI technology will be applied in a way that violates people's privacy and other fundamental rights. The European Union Parliament is making a significant commitment to guaranteeing the safety of AI technology by outlawing its usage in public spaces.

Conclusion

In the era of artificial intelligence, privacy protection is a problem that impacts each one of us personally and socially. We must handle this problem in a diversified manner, using both technology and governmental answers. Secure, transparent, and easily accessible AI services and algorithms are made possible by decentralized AI technologies, which present a viable path forward. By utilizing these platforms, we can encourage more democratization and accountability while lowering the dangers connected to centralized systems.