Ethics in Computing

The application of Artificial Intelligence (AI) is rapidly taking up more and more space in our daily lives. Misusing AI could have severe consequences. As a computer professional, it is vital to ensure that AI should adhere to fair and no harm to all people. On the other hand, at present, most influence AI products are based on machine learning, which organisations use also need to collect various data to train the AI module, so it's also essential to secure that the company's data collection and storage practices comply with data protection laws and regulations, such as the General Data Protection Regulation (GDPR).

In order to fulfil this responsibility, I would also need to collaborate with my colleagues and other stakeholders to develop a detailed operability rule/code based on the ACM and BCS code of conduct. There needs to be more than ACM/BCS on the daily job because the ethics code could be too broad, lacking in practice, and focus on ethical decision-making for an individual engineer (Green, 2021).

Regularly hold an ethics seminar, and take cases study (Herkert, 2005) to stay informed about the latest research and developments in the computing field. As computer technology is evaluated, more difficulties try to keep a constant point to handle a new case, especially on taking AI in a different area that before never touched.

Introduce ethics consideration as a mandated requirement of requirement/design documents, and engineers have to analyse potential risks on ethics as part of system design/implementation. A need can be considered as a goal that must be archived so that system stakeholders can't be compromised, and it forces people to take ethics concerning with solemn.

Respect privacy to ensure the company implements appropriate technical and organisational measures to protect personal data, such as encryption and access controls. Be transparent and open about how engineers are collecting and using data. Based on GDPR, companies that don't take appropriate action on data protection could face a huge fine, and a good reputation for privacy can win the trust of users.

Regularly assess the company's privacy practices to identify and address any potential vulnerabilities.

Conduct regular security audits and risk assessments to identify and address potential threats to data privacy. Audit trails also had been proven to be a reliable method to improve AI's reliability, safety and trustworthiness (Shneiderman, 2020).

These actions help ensure that the company operates responsibly and ethically while avoiding legal consequences and maintaining customer trust. Moreover, prioritising privacy and minimising the damage AI could take also helps to uphold the company's reputation and support its professional image, or IT professionals could contribute to a loss of trust in the technology and negative consequences for individuals, communities and society.

Reference

Green, B., 2021. The contestation of tech ethics: A sociotechnical approach to technology ethics in practice. Journal of Social Computing, 2(3), pp.209-225.

Herkert, J.R., 2005. Ways of thinking about and teaching ethical problem solving: Microethics and macroethics in engineering. Science and Engineering Ethics, 11, pp.373-385.

Shneiderman, B., 2020. Bridging the gap between ethics and practice: guidelines for reliable, safe, and trustworthy human-centered AI systems. *ACM Transactions on Interactive Intelligent Systems (TiiS)*, *10*(4), pp.1-31.

Formative feedback:

- The content is interesting and focuses on AI and additional aspects such as ethics in connection with AI which is appropriate.

- It is clear research has occurred and it is good to see long references in your reference list that indicate where this research has come from.

- However, you can cite more. And so, when speaking of ethics there is much research out in the public domain that supports ethical considerations. Applying research like this will allow you to cite more.

- Keep your font to Arial and Arial font size 12 throughout.

- Double line spaces to be applied between sentences.

- Your academic writing style is developing but some of your syntax/sentence structure could be stronger and there are some missing link words in your sentences in places which interferes with the flow of reading your content. Please contact Computer Support for any additional help you may need with developing your academic writing structure.