20 Ethics and Impact

> this topic is mostly self study, but thank goodness i know a really really good law student :) - Raghav, Computing Rep

Ethics

▼ Ten Commandments

▼ Thou shalt not use a computer to harm other people

▼ Thou shalt not interfere with other people's computer work

▼ Thou shalt not snoop around in other people's files

▼ Thou shalt not use a computer to steal

▼ Thou shalt not use a computer to bear false witness

▼ Thou shalt not use or copy software for which you have not paid

▼ Thou shalt not use other people's computer resources without authorization

▼ Thou shalt not appropriate other people's intellectual output

▼ Thou shalt think about the social consequences of the program you write

▼ Thou shall use a computer in ways that show consideration and respect

Professionalism

▼ Singapore Computing Society Code of Conduct

▼ Integrity

▼ Full Responsibility

▼ Competence

▼ Professionalism

Legal Issues

▼ Personal Data Protection Act

  ▼ Refer to Ch19

▼ Copyright Act

  ▼ Strengthens creators' rights and introduces new exceptions for computational data analysis and educational use of online materials

  ▼ Mandates clear identification of creators and performers in public use of their works

▼ Computer Misuse Act

  ▼ It prohibits unauthorized access to computer programs or data, with penalties for damages

  ▼ Unauthorized access includes altering, copying, or using data without consent

  ▼ The act encompasses removable storage media and modifications to computer contents

▼ Cybersecurity Act

  ▼ Aims to strengthen protection of Critical Information Infrastructure (CII) and empower authorities to prevent and respond to cybersecurity threats

  ▼ It establishes frameworks for CII designation, threat investigation, information sharing, and licensing for cybersecurity service providers, ensuring national cybersecurity resilience

Economic Issues

▼ Industry 4.0

  ▼ Smart Technologies, Cloud Computing, Big Data, Networked Machines

  ▼ Creates Jobs

AI Ethics & Governance

▼ Body of Knowledge

  ▼ Addresses ethical concerns in AI deployment

▼ Promotes responsible AI use, aligning with accountability-based data management practices

▼ Tailored for human safety, fairness, and privacy, the toolkit aids professionals in understanding and managing AI governance issues effectively