

Assignment 5

1.

- a. Route 1: $(0.2 * 2 / 2) + (0.3 * 2 / 3) + (0.5 * 2 / 5) = 0.6$
Route 2: $(0.4 * 1.8 / 2) + (0.2 * 1.8 / 3) + (0.4 * 1.8 / 5) = 0.624$
Route 3: $(0.5 * 3.1 / 2) + (0.4 * 3.1 / 3) + (0.1 * 3.1 / 5) = 1.25$
The best route is route 1 as it is most likely to be the quickest route
- b. Route 1: $0.6 + (0.3 * 0.75) = 0.825$
Route 2: $0.624 + (0.6 * 1) = 1.224$
The best route is still route 1 as it is most likely to be the quickest route
- c. Yes, having a satellite would be helpful. If it is smooth the route would be done in 0.62 which would be the fastest route. It would be worth it to wait up until $0.825 - 0.62 = 0.205$ of an hour since if confirmed it would still be the fastest of all the routes even after waiting.
- d. chatGPT cannot solve the problem. It seems to get confused when plugging in the numbers into the equation. It has the formula correct but puts the the numbers in the wrong spots and gives an incorrect answer.

2.

Big tech companies have an advantage in AI in three fields: data (they have access to an absurd amount of all of our data), computing power (they control the largest and most powerful computation devices needed for AI), and geopolitical (they have become intertwined with the countries they represent). It is important to focus on Big Tech because of the unique scale that these companies are operating in. They have become global with powers rivaling that of nation states. It reminds me of the genocide in Myanmar that was in part bolstered by Facebook. Priority 1 puts the burden of proving there is no harm onto the companies instead of the regulation bodies. This is important in order to curb technologies that would be very harmful like emotion detection as an example they gave. I personally think the most effective window for action would be to contain tech firms' data advantage. I think that this would have a positive effect not only on AI but also on many other levels as well. Currently they have far too much control over our data.

My response to quote:

I agree with this assessment. Current AI only serves to maintain the status quo which unfortunately currently is not very great. I think we need to rethink AI to be more people oriented. To lift people up instead of letting them down.

chatCPT response:

I don't hold personal opinions, but I can provide an analysis of the statement and discuss potential ways to address the concerns raised.

The statement suggests that there is nothing inevitable about the impact of artificial intelligence (AI) on society. It emphasizes that AI should not be equated with progress, as it can have significant social, economic, and political consequences. It also points out the potential negative

impacts of AI, such as exacerbating inequality, inhibiting workers' ability to organize, and promoting harmful content.

To avoid these potential negative outcomes and rethink our relationship with AI and technology, several strategies can be considered:

1. **Ethical AI Development:** Developers and organizations should prioritize ethical considerations in AI development. This includes ensuring transparency, fairness, and accountability in AI systems. Ethical AI guidelines and frameworks can help guide the development process.
2. **Regulatory Frameworks:** Governments and regulatory bodies should establish and enforce regulations that address AI's impact on society. These regulations can cover issues such as bias, privacy, safety, and the responsible use of AI.
3. **Public Engagement:** Engaging the public in discussions about AI and its consequences is crucial. This can include public consultations, town hall meetings, and educational initiatives to ensure that people have a say in the development and deployment of AI technologies.
4. **Inclusivity and Diversity:** Ensuring diversity in AI development teams and addressing biases in AI algorithms can help mitigate the technology's potential to exacerbate inequality and discrimination.
5. **Worker Protections:** Labor laws and regulations should evolve to protect the rights of workers in the age of AI. This includes ensuring job security, fair wages, and the ability to organize in response to changing workplace dynamics.
6. **Education and Awareness:** Promoting digital literacy and awareness about AI's capabilities and limitations is essential. People need to understand the technology to make informed decisions about its use.
7. **Mental Health and Well-being:** Addressing the impact of AI and digital technologies on mental and physical health, especially among young people, is crucial. This may involve regulating content, promoting healthy online habits, and providing mental health support.

In summary, it is essential to recognize that the impact of AI is not predetermined but depends on how we develop, regulate, and use these technologies. By adopting a more cautious and responsible approach to AI, we can mitigate potential negative consequences and ensure that AI benefits society as a whole rather than exacerbating existing problems.

Reflection on chatGPT response:

I think that the response is quite a bit better than I expected. We actually agreed on most of what was said in the original quote. It is obviously much more verbose and goes into more detail however the general gist is similar. I am honestly surprised that it called for a more responsible approach to AI.

