

Ethical AI Needs Specialized Professionals

by Anneka Singh

Artificial intelligence (AI) will completely change the future and job industry, resulting in the rise of new careers and the toppling of some careers that currently play a significant role in daily life. However, the rise of AI could cause technology misuse, making it crucial for the career of an AI ethics professional. The career of an AI ethics professional is a career that would benefit and help society learn to foster AI. An AI ethics professional would teach the future generation how to use AI, experiment with AI, and make crucial decisions regarding AI. These students will go on to different careers and sectors of the economy. They will ensure that humankind broadly benefits from AI rather than be harmed intentionally or unintentionally.

AI has already taken the world by the hook. According to a *Statista* study, ChatGPT had 1 million users within five days of release. ChatGPT is a tool created by AI technology that allows ChatGPT to have humanlike conversations with users, and ChatGPT has also been notorious for answering difficult questions. The *McKinsey Global Institute* says that "AI may deliver an additional economic output of around US \$13 trillion by 2030". It would allow the United States to further advance and boost the country. AI will replace jobs; however, this is expected to be a positive outcome as it will create even more jobs. The *World Economic Forum* notes that AI would create 97 million jobs by 2025.

The increasing reliance on AI makes it vital for an AI ethics professional to conduct important research to examine complex moral and ethical dilemmas AI might create and face. They also need to be involved in educating the young generation. For example, an AI ethics professional in a large multinational company would also teach the younger generation interested in AI how to use the technology without misusing and corrupting it. They could spread awareness in the world by speaking in universities as a guest lecturer so that the new generation interested in properly handling AI is fully informed. An AI ethics professional will teach a class about AI's responsibility to be more effective and successful in its tasks. Responsible AI is already being used, and there are already jobs in this field. As AI grows, the demand for responsible AI careers will also increase. Responsible AI is being used in big companies such as Google, they have already developed practices to keep AI ethical. They have addressed fairness, interpretability, privacy, safety, and security that can be seen on their website. It is principled that big companies in Google understand the importance of developing an ethical AI as it will determine the future use of ethical AI.

I want to become an AI ethics professional as I am interested in the field, and it is essential for the moral dilemmas AI might face to be recognized as a solution for many problems

facing the world. The influence of AI ethics professionals could affect the United States and the world, making it crucial for AI ethics professionals to ensure they are rooted in ethical and morally upright conduct. As an AI ethics professional, I would prioritize the well-being of the people so that AI innovations are successful and help people and the world. AI research will be even more significant in the next ten years.

The experimentation of AI as time goes on is also extremely important. An AI ethics professional must be an expert in AI. In addition, the AI ethics professional could even have expertise in more fields. For example, there could be a field in AI ethics for educational purposes, one for science, another one for business, and another field for AI used in moral situations. I will obtain advanced degrees in philosophy, AI, and law to be well-prepared to succeed in my dreams and implement AI safely. The experimentation in AI is fundamental as it would allow for more uses of AI to be discovered. According to a *Forbes* article, AI can already do the five senses that humans have: sight, smell, taste, hearing, and touch. AI is already more human than most people think; however, as the *University of Hull* says, "human intelligence uses their brain, memory, and cognitive abilities while AI relies on the data provided by the human." While AI acts like humans, there is still a long way to go. It leads to further discussion of whether AI should be developed to be better than humans, support humans, or complement humans. This is where the importance of AI ethics professionals comes in as they deal with the issues even AI can't comprehend and make important moral decisions.

The job description of an AI ethics professional would also include making important decisions that an AI can't process. For example, in the future, people might ask AI questions such as whether they should steal or commit crimes. AI may believe it is necessary to do these actions; however, morally, they are not correct or fit in with the country's laws. An AI ethics professional would also specialize in the influence of AI on the average person's daily life. AI would have an increasingly significant impact on humans. Dorothy Leidner from the *University of Virginia* says that AI programs are already being developed to determine the mental state of a human. However, it is essential to address that while these programs are set for positive intents, it is also important to understand how companies will manage the data received and if they will misuse it. Policies need to be established regarding these fundamental issues. Leidner says, "There's a delicate balance with technologies gathering our private data." Policies that protect the individual's rights from technologies would be the ideal way for an AI ethics professional to use their expertise to create fair and lawful policies. All these are important points because AI has many benefits and drawbacks.

One of the main benefits of AI is automation, which means businesses can complete tasks that cause menial work with ease, allowing companies to use their employees' skills and time for better use. The use of AI would cause automation to benefit the business world greatly. AI also makes intelligent and efficient decisions. This benefits companies as AI can predict growth and outcomes and analyze upcoming trends, increasing the efficiency of running businesses. In

addition, AI could further the use of machine learning, allowing for even more advancement of technology. Above all are the benefits AI would provide to society and the people. Even today, AI programs can identify which places most need aid for poverty and hunger using data and analytics so that resources can be directed to areas where aid is needed the most. For example, *Stanford University* is using AI and satellites together to alleviate poverty in Africa. The researchers have used AI and deep learning to create an algorithm that analyzes data that which African villages are most in need of aid for their wealth. In the future, the use of AI could result in the successful elimination of hunger and poverty. In addition, AI is also being used for health such as cancer treatment and drug discovery. The *University of San Antonio* uses AI to identify tumors more accurately so they can be removed more easily. The goal for the researchers there is for clinicians to target the tumor better while not harming the critical organs around healthy tissue. AI has brought a new age of prosperity to the world and will continue to help the world.

AI also faces its drawbacks. AI may have a bias because humans develop AI programs. Humans naturally have biases in the way they think, and in some cases, human bias has been passed down to AI, making the AI model unethical. *Harvard Business Review* reported, "Joy Buolamwini at MIT, working with Timnit Gebru, found that facial analysis technologies had higher error rates for minorities, particularly minority women, potentially due to unrepresentative training data." Bias in AI models is unfair to the people that it affects. Furthermore, 37% of citizens between 18-24 believe that AI will eliminate their jobs in the next five years due to automation. *McKinsey and Company* estimate that AI could replace 30% of the world's labor by 2030, leading to 375 million people switching jobs.

I envision that AI will be the next economy generator, like what the energy sector has done for the past nearly 100 years. As an AI ethics professional, I would work to eliminate bias in AI as it does more harm than good. As an AI ethics professional, I would make it my goal to minimize the loss of jobs. Instead of manual labor jobs, I will work on developing strategies to create more jobs to develop and improve AI. I would also have to handle ethical dilemmas AI provides, such as the misuse of AI. The growing use of AI means there are bound to be misuses of the technology. For example, in 2014, Cambridge Analytica was a platform eager to sell the profiles of American voters to political campaigns. Cambridge Analytica obtained data from tens of millions of Facebook users. It is crucial for the Cambridge Analytica and Facebook scandal never to occur again, as the data of the users of AI platforms is vital to the project. Breaching the data would be considered a violation of privacy. As an AI ethics professional, I would lead research that creates safety around the AI users' data so that they have the utmost protection. While the main purpose of AI is to improve and advance the world, there are still people using AI for their malicious intent. An example of this is the rising number of deepfakes being created. The *University of Virginia* defines a deep fake: "A deep fake is an artificial image or video (a series of images) generated by a special kind of machine learning". Deep fakes cause added mistrust to the people with the media. People can replicate an important political figure and can make a video where it appears the important political figure is informing the public of a critical

event. For example, a deepfake could be created to have an important figure telling people that there is a mass pandemic breakout. This is harmful to society as it spreads misinformation and causes mistrust. There are several other examples, such as the use of deep fakes to bully and shame even in schools. Furthermore, a deep fake could be caused to frame innocent people as guilty. As an AI ethics professional, I would work to create programs that filter out the harmful deepfakes that could cause harm to society and the people.

The field of AI is a constant field that is here to stay, and so is the human need for ethical AI. It is important to address the wide variety of people who could be AI ethics professionals and how their expertise would vary. For example, someone could be working on developing ethical AI while another person would be spreading awareness about ethical AI across the country, and another person could be doing research into AI itself while finding problems that AI has in terms of being moral. While all three jobs differ, they would be considered AI ethics professionals. The diversity of what this job has in the field would appeal to the young generation in the next ten years. AI ethics professionals could also decide which field they would like to focus their expertise on for its application. For example, one person may decide to use AI ethics in the healthcare field because they are passionate about that field, and they could make sure the AI being used in healthcare is morally correct and responsible. However, another person who is interested in AI ethics and business could use AI ethics to make sure that businesses are not corrupt and using the data they gather from users. In addition, AI ethics professionals could do multidisciplinary work that combines several fields. An example of this could be an AI ethics professional working in the biomedical engineering field to collaborate with biomedical engineers on AI. They could do this by working to create a safe AI that is used to make prosthetics for people who need them. Also, AI ethics professionals could work on developing AI instead of just focusing on the ethical side of AI. This allows people involved in the AI ethics field to follow what they are passionate about while still helping society.

Artificial General Intelligence (AGI) is a tool currently being developed by AI developers, and the goal for AGI is to be developed as humans. This means that in the future, AGI could perform practically any intellectual task humans can perform, creating even more opportunities and challenges for AI ethics. According to *Wired*, OpenAI was quite vague on their definition of AGI and continues to say “ A blog post from CEO Sam Altman describes AGI as anything “generally smarter than humans”. AGI will cause humans to be increasingly reliant on the software. Currently, it is not known when AGI will be fully developed; however, it may be completely developed by the next ten years. The development will lead to AI ethics needing to be present more than ever. If not handled correctly, machines and robots performing the way humans can cause much distress and chaos. However, creating rules to keep AI safe will result in AGI being beneficial for society. Creating a fully working AGI model will be a major accomplishment in human history.

I want to give a brief rundown of what the day in the life of an AI ethics professional would look like ten years in the future. In this scenario, the AI ethics professional woke up at 6 am with the latest version of Alexa, which played a soothing melody that calmly woke up the AI ethics professional. The AI ethics professional then did yoga to start their day. Once they finished their yoga session, the AI ethics professional prepared for the day. While their robot informed them on the daily news across the globe. The AI ethics professional prepped for the guest lecture they were invited to at the university. The professional made a homemade breakfast of oatmeal with freshly cut berries. However, the meal was made by a machine that used all locally sourced organic ingredients, which were freshly prepared by command. The machine also had a drink setting, which energized the AI ethics professional with freshly squeezed juice made of oranges, apples, and spinach, making it extremely healthy. The AI ethics professional then used their self-driving car, which transported them to the university at 8 am. The AI ethics professional was invited to a class that taught students how to develop AI. The professional had a lecture prepared to discuss the necessity of incorporating AI ethics when developing AI. After delivering the lecture, the AI ethics professional showed the chatbot they created, which answered student questions in real-time. The professional developed the chatbot, and it answered almost all questions imaginable regarding the topic, making it an informative source for students. The class also tested if there was any bias in the AI responses. Before leaving the lecture hall, the AI ethics professional answered questions from the students and let them know the professional would answer any other questions not answered by the chatbot through email. After leaving the lecture hall, the AI ethics professionals returned to their office, where they then talked to the leading developers of ChatGPT, which was now found in every household by being an object that was incorporated into homes. The meeting started at midday and addressed keeping the privacy of the users that used Chat GPT, as keeping privacy was one of the company's main goals they had established. The meeting was extremely productive; however, it lasted until 4 pm. After ending the meeting, AI ethics professional responded to work-related emails and then used their self-driving cars to return home. After returning home, the AI ethics professional spent the rest of their evening reading while enjoying the meal that their robot had cooked. The AI ethics professional looked forward to the next day as they had a meeting with the United Nations to set the guidelines for the ethical use of AI in the developing world.

All in all, AI ethics professionals are needed for the future of AI so that it is safe, ethical, and valuable. AI ethics professionals help moderate the use of AI for future years to come. This allows AI not to be misused and instead used for the greater good. AI has already proven to be valuable to society, and in the future, the demand for ethical AI will be higher than ever. The role of an AI ethics professional is crucial, and I aspire to become a leading figure in the AI ethical field and spend my years exploring the vast field of ethical AI.

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