**Future of Artificial Intelligence**

Throughout the years, many people have speculated through movies that the future of the human race, with the rise of more advanced Artificial Intelligence, can be very grim even to the point that it can endanger our existence. Personally, I highly disagree with these speculations and I would say that, on the contrary, Artificial Intelligence will bring many benefits with its continued advancements.

**Artificial Intelligence in Cars**

One aspect that comes to my mind straight away when I think about Artificial Intelligence are self-driving cars. In 2014, a classification system with six levels was published by SAE International. These levels range from zero to five, zero being fully manual and five being fully automated. At the moment, one of the most popular cars with a self-driving feature are cars manufactured by Tesla. Even though we probably all heard stories about how drivers fell asleep behind the wheels and the Artificial Intelligence inside their Tesla managed to bring them home safely, Tesla cars are still only classified as a level two SAE automation level, meaning that they need a constant driver monitoring. At the end of 2019, however, the founder and CEO of Tesla, Elon Musk, has stated that they plan on releasing cars with the necessary hardware built-in for a level five SAE system. He even claims that by the end of this year, Tesla will release “robotaxis” in USA, which function like normal taxis but are fully operated by Artificial Intelligence.

Of course, like everything else, fully autonomous cars bring many ethical problems with it. One of the most popular of those ethical dilemmas is how the Artificial Intelligence may react to danger on road. Given that it may be pre-programmed to minimise the human fatality rate, it may, for example, choose to quickly swirl into another vehicle if it decides to prioritise your safety over the safety of other vehicle. Even though that's a valid argument, we cannot forget that almost 94% of traffic accidents happen because of human error. A car with a SAE level five system can greatly reduce the amount of overall accidents on our roads, even if it has to sometimes make calculated yet ethically unpleasing decisions.

Even with such ethical issues, there are still some ideas that were put forward in order to stop things like this from happening. Allowing the Artificial Intelligence in self-driving cars to communicate with each other is one of these ideas. With it, if a danger occurs on the road, the Artificial Intelligence in other vehicles may work together to allow a safe passing for the endangered car, but this scenario would, unfortunately, only work with all vehicles being fully operated by Artificial Intelligence and for that we might have to wait a while.

**Human-Artificial Intelligence Symbiosis**

Another very interesting aspect that we could utilise the advantages of Artificial Intelligence for, in my opinion, is human and Artificial Intelligence symbiosis. This could be achieved by planting chips and thin threads into the subject’s brain through sewing-like machines. Even though this sounds very like science fiction and seems like we could be long way off, there are companies that are already carrying out tests with such possible technology. The most known, and very likely the first company to start full work on it, is Neuralink. Neuralink plans on using 4 to 6 μm wide threads with experiments already carried out on lab rats, where 1500 electrodes were planted inside its brain, and the Artificial Intelligence was able to read the information from rats’ brain.

Such technology may have many benefits as it can help in treating many brain disorders. It can also help people involved in accidents by creating a brain machine interface controlled by Artificial Intelligence. Such tests were already carried out on monkeys where it managed to achieve a level of mind-based Artificial Intelligence control. The most interesting aspect of human and Artificial Intelligence symbiosis is the human enchantments that can come along with such symbiosis.

Many people worry that one day Artificial Intelligence may surpass humans and our intelligence. However, if we manage to achieve full symbiosis, we may be able to easily keep up with Artificial Intelligence on many levels. With the use of symbiosis, we could be also able to access eternal software and electronics, like our phone, without even touching it all thanks to those small machine-controlled chips and threads inside our brains. This could greatly boost our development as a race and bring us way above what we imagined is possible. Some philosophers and professors even believe that symbiosis with Artificial Intelligence may be the key to reach transhumanism and transform ourselves into different beings with enhanced abilities that are greatly developed compared to standard humans. We could even call ourselves “post-humans” but that part, unfortunately, sounds too advanced to ever happen.

**Artificial Intelligence in Education**

Education is a field in which Artificial Intelligence is starting to get a lot of momentum in recently and is definitely not stopping anytime soon. Many programs that are being used by students and teachers already implement Artificial Intelligence to help them in their work. For example, programs like Word implement Artificial Intelligence to scan a student’s work and give them helpful tips whereas PowerPoint uses Artificial Intelligence to record a student’s activity and give them helpful tips on their presentation.

However the learning experience students receive from Artificial Intelligence could be far more enhanced than simply implementing it into text and speech correction. We can already see that robots, like Nao, are being used in the education system to help teach younger kids. With the advancements of Artificial Intelligence, every student could have a personal assistant similar to that of Nao or even to the structure of devices like Alexa, which could carry all the information that the student would be required to know and be able to teach it whenever it is needed. These kinds of personal assistants could also process the emotional state of the student. This use of Artificial Intelligence can already be seen in projects like ARTIE. This can analyse the student’s emotional state by using keyboard and mouse interaction data. This data could be used by teachers to approach a student in an effective way, like changing their facial expressions, body language, tone of voice etc. Of course, the most interesting question regarding Artificial Intelligence and education is “will robots replace teachers in their jobs?”. Even though it’s not an impossible scenario, many people speculate that Artificial Intelligence would not have the emotional aspect that a teacher would have.