UTM VISIT MDEC

MDEC Big Data

Kuala Lumpur(11 September 2019): Artificial intelligence (AI) and Big Data are going to have a big effect on manufacturing. With these technologies, manufacturers will achieve the computational power needed to remedy problems that humans can't possibly solve. They will ultimately be able to provide prescriptive answers to production troubles producers have been asking for centuries. Namely, how do we make our product as efficaciously as possible, with zero waste and the least quantity of effort's. So, as a initiative to help the UTM students know the importance of AI and Big Data in their future, the UTM management hast decided to bring their Data Engineer students to the AIDC sponsored by MDEC.

The AI and Data Week 2019 (AIDC) is a week long annual event that sponsored by Malaysia Digital Economy Corporation(MDEC).The purpose of this event is to make Malaysia country as the regional digital hub for Artificial Intelligence and Data. The goal of AIDW is to help to introduce the nitration and adoption of Artificial Intelligence among the participants of various events .The event is held 9 until 15 September of 2019.The event is officiated by **YB TUAN Gobind Singh Deo (Minister of Communications and Multimedia Malaysia).**

The Aim and Head of this visit

DR ARYATI BINTI BAKRI,PENSYARAH KANAN (DS52),FAKULTI KEJURUTERAAN

Almost 40 peoples including students and lectures participate in this event. Dr Aryati the Head of this event said that **"This is an important event that can expose student the important of AI and Big Data in their future careers. The event also may help them introduce the world of Big Data due to all students that participate in this event is first year students."**

The event has involved almost all of the leading company in the AI and Big data industry in Malaysia. There were both government based and private based companies involve in this company.For example like FUSIONEX,MAMPU(Unit Permodenan Tadbiran Dan Perancangan Pengurusan Malaysia),Acer, AWS (Amazon Web Services), WISE AI and etc.

Trends in AI and Big Data

After walking through the entire exhibition it can clearly be seen that internet of things (IoT) is gaining a lot attention in AI and Big Data. Smart devices like Google Assistant and Amazon Alexa allow consumers to control their home appliances like lighting, door lock, electricity socket from their smart phones. Artificial Intelligence is infused in these devices allowing them to be voice automated. There is no doubt that these inventions are making our lives easier. A lot of companies are trying to provide better Internet of Things solutions by inventing better technology. Through this technology, they are able to collect more data from consumers. Other than that, machine learning is starting to carve their name in AI and Big Data industry. Machine learning is a part of Artificial Intelligence that gives systems the capacity to automatically take in and improve without being thoroughly programmed. Machine learning uses computer programs that can get information and use it to learn and improve themselves. The essential point is to let the computer adapt naturally without humans' help. One of the companies at the event, Fusionex also provide automated decision-making service, they uses machine intelligence to make the best decision and carry it out for their client's business.

According to the data published by the United Nations, the world population will reach up to a limit of 9.7 billion by 2050. It is deduced that almost 70% of that population will be an urban population. As the number increases, we'll have to encounter challenges regarding making a provision for resources and energy to all of the inhabitants and at the same time, avoiding environment deterioration. Another critical challenge is administration and management to prevent sanitation issues, mitigate traffic congestion, thwart crime and etc. But many of these problems can be solved by the use of AI-enabled IoT together with big data management system. Using technological advancement to facilitate the new experience for inhabitants can make their daily life more comfortable and secure. This has given rise to the concept of smart cities. A smart city is a city that makes use of information and technologies to enhance the quality and performance of urban services like transportation, thereby reduces the consumption of resources, prevents wastage, and overall costs. Smart cities employ technology in a way that positively impacts the inhabitants. Artificial Intelligence combined with IoT has the potential to address key challenges posed by an excessive urban population which includes traffic management, healthcare, energy crises, and many other issues that will rise. It can improve the lives of the citizens and businesses that inhabit a smart city.

The Experience of Students

Jegan,Saharul and Alis visiting the Fusionex booth

First year data engineering student, Nurul Alis (19) chose Analitis Data Raya Sektor Awam (DRSA), a government sector as her favorite booth because they uses data from all sources including social media, journal and benchmark reports to help in their decision-making process through analysis to improve the quality of their services .She added," **after asking around in this event, I found out that to be in Big Data industry I have to really master several programming languages like SQL, Python and more. Lecturers only teach the basics, so in order to improve myself and make myself employable I have to explore on my own. Furthermore, I know that the growth of technology especially in Big Data and Artificial Intelligence have its downside like invasion of privacy but the benefits it brings cannot be ignore. The world has to move forward and sometimes sacrifices had to be made in order for it to happen. The big data future can be bright as long as everyone walks into it with an open mind."**

Saharulnizam Hakimy bin Shobri (19), a Data Engineering student says that he is amazed by how technology can bring so much prosperity towards mankind. He learned that in order to make this smart city is a success and can be achieved, great skills must be acquire to do so like mastering programming languages such as Python, SQL and R which is prior in development of big data management system and fundamental for AI development. He also wishes that he could be one of the people who is going to bring this smart city to reality. **Smart city not only gives benefits toward humans' daily life but also contribute in preserving the nature as it can overseer and control the human activities that affect the nature. Humanizing the artificial intelligence is not easy but in order to achieve a better life, mankind never stop and always continue to find more solutions**. These exhibitions really shows how does Malaysia is really serious about developing technology for a better mankind.

Science Computer degree student Jegan ,said that he learn many new things in this event. He also said **"I can learn a lot of new and wonderful things in this event. The booth that has most impacted me is the Fusionex company's booth.The officer of the booth said that Fusionex is an established award winning data technology provider that specializes in Analytics, Big Data, Machine Learning and Artificial Intelligence.He explained me the importance of mastering many new programming language like phyton and R. He said that this a very fun but at the same time hard also due to the growth of new technologies every single day. So, he advised me to always read the news and stay up to date with the growth of technologies and never stop learning new things."**

Saharulnizam Hakimy bin Shobri and Nurul Alis visiting the DRSA booth