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**Summary of CompSphere 2019**

CompSphere 2019 is one of a big event that is held by the PUMA COMPUTING 2019. In this event, there are three seminars and other workshops, not only seminars, but also there are thesis exhibition that is held to show the participants about thesis from previous college students.

The first seminar is about content creator, its speaker is Nur Alif Ramadhan, the creator of Dalang Pelo, the meaning of Dalang Pelo in Indonesia means “pembawa cerita, tidak jelas”, in English it means storyteller, not clear. The character that he made is from activities and his daily life, he also told us that if we want to make a character that is easily recognizable, we have to make a uniqueness thing that is different than other characters, even in the silhouette, the character has to be unique, that is one of the characteristic things that need to be implemented in content creators to make unique character. Tools that we need to have to make the animations are Laptop, Tablet and pen, and voice recorder. There are many process that we need to do to make these animations, the first we need to search the ideas, the second is we need to make the script for the animations, the third is that we need to voice over the character, the fourth is edit those voices and arrange them, after we finish with the voice for the animations, we need to make the animations, the fifth part is that we need to make the sketches for the animations, it is quite hard for those who can’t or never draw before, after drawing the sketches, comes to the sixth part which is making the animations from the sketches, it is also quite hard, because we need to make those animations frame by frame, which means it needs a good accuracy in making those animations. The last part is we need to edit other things to make the animations become presentable and marketable, carefully check the animations whether it has flaws or things that we haven’t fixed before. From this animation, Nur Alif Ramadhan has gather passive incomes, these passive incomes come from endorsement/AdSense which gave him thousands even millions of rupiahs, because he also an animated channel which grants him a bigger AdSense from comic maker that only draws without using animations, he also make Papepooy, a “Line” Sticker that also can generate passive income for him. The hardest part of a content creator is to taking the time and just thinking about the ideas, because not every content creator can make their content every time, for example, when they are having bad moods, sometimes in moods like that, they cannot generate any ideas, but for Nur Alif Ramadhan, he has his own time to make the animations. Ideas are hard to find, on the other hand, ideas is also can be found through many ways, Nur Alif Ramadhan said that ideas that he got for Dalang Pelo came from his ideas or when he have a hangout with his friends, because sometimes, many of his friends ask him to do their ideas, or if he didn’t have any ideas, he will make another animation, so he split the story into two parts. That is for the content creator part. For me this seminar is the best out of the other three, here I can get many informations on how to be a content creator.

The second seminar is about Data Science Role in Industry 4.0 by Yaumil Sitta. Industry 4.0 is introduced in Jerman, the first Industrial era is when the steam engine is invented, the second industrial Era is when electricity is invented. The third Industrial era is when Computers is contributed to the society to help the society work. Now, we are heading to the fourth Industrial era, these four Industrial Eras are always focusing to the automation, and this fourth Industrial Era is about interaction between one machine and another machine, and these machines always learn from both humans and other machines. One of the effects of this Fourth industrial is that many occupations will use computer as its mediator and they will mostly interact with computers. Data analysts and data scientists are supposed to be one of the best occupations for three years ahead from now. Companies that use data are the ones who have the biggest profits. We need to use R or Python for data science, because Excel only has 10000 rows. Data science is a knowledge that is combined with other knowledge such as Information Technology, Mathematics and Statistics, and Business knowledge. There are some skills that we need to have to become a data scientist, the first is technical skills and the second is non-technical skills, the purpose of data science is to explain the result from the machine learning that helps us manage the decisions to normal people. Tools that we need is R or Python and if we mastered R or Python, we have mastered 80% of data science. The steps that we need to take in Data science are first we need to import the data, second we have to call the data in Rstudio, third we need to arrange those data, visualized and communicate the data to normal people. There are few steps to communicate and visualize the data, the first is we need to know the type of data, the second we need to know the audience and we need to think what kind of visualization type should we deliver to the audience, the third is that we need to tell the story and point from the data that we have gathered and also its conclusion, the last is we need to know how to communicate with the audience, so the audience will know what we’re doing and the informations that we deliver. There are two goals from Visualization, it is exploratory and explanatory.

The third seminar is about cyber Security by Dani Aquarius Febrianda from Commonwealth Bank. He introduced Fourth industrial era to us, he also said that Indonesian people are on of the most consumptive people, because of this many data have been stolen by other people, that is why we need cybersecurity to protect our data, so the data cannot be stolen by other people. He also explains to us about cybercrime, he explained to us about many cybercrime and its type that have been occurred on many occasions, there are also graph about it. He also said explain to us about crime actor type in cyber, there are many crime actor type in cybersecurity and how to deal with them, he also explained to us about the cybercrime scheme and social engineering which is one of hacking methods, and the target for social engineering. Malware is one of the acts of cybercrime that can damage and take your data if you are not careful, for example there is an odd SMS or email that is in your inbox, some people will suspect it first, but for the people that always accept it without thinking of its negative sides, the malware will infect the computer, and that is why we need cybersecurity that will helps us protect the data that we have in the computer.  
  
 That is the summary of these three seminars in CompSphere 2019. I learned so much from this event and I hope to learn so much more