

Part A

The mobile industry have done a great job in migrating all the application softwares from high end computers to tiny yet more powerful version of those applications. Mobile application development had achieved a lot since the system softwares like Android and IOS were developed. The applications moved from being an offline tool to fully functioning web based apps which can help us in pretty much every situation. Mobile Technology is a non-stop evolving field where there is always a way to improve. Some of the improvements are like use of AR in a lot of apps these days which narrows down the gap of virtual world and the real world. New type of biometric verification systems such as face, fingerprints and iris are included in mobiles to level up the overall security of the system. But, a few upgrades can be done in the security of the device which is encryption. An encrypted device is way more secured from scammers than a non-encrypted one. While some devices do provide you with this feature but according to me, this should be a must have feature on any device with a higher bit encryption.

While these improvements are important for data safety of the device, there are some more upgrades which can be seen in the future. First one to mention is 6G in mobile communication. 5G have just released and the data transfer speeds are already quite impressive with near to zero latency but the companies are still doing researches and improving their networks So 6G is also a network upgrade which can be seen in the near future. Second to mention is the computing power with more powerful SoC(System on Chip). A lot of companies like Qualcomm, Apple and Samsung are successful in making more and more powerful chips. Because of their architecture and advanced technology. Those silicons work on ARM architecture and work on as low as 3nm technology which is powerful, less space consuming and battery friendly which can provide you with better multitasking performance while using less battery [1]. Foldable displays are becoming more and more common in mobile devices nowadays which can also be a new norm in upcoming future. There are some improvements which can be done for eg. with foldables, the device cannot be water or dust resistant and since the displays are made from soft plastic, it cannot be used with harsh touch or can

be destroyed or end up getting scratched which makes the display less sustainable.

Professionals with a good grasp in AI will be more demanding in the future because of the growth in the field of AI. Some of the fields are Machine learning engineer, AI ethics specialists, Data Scientist, AI researchers, Robotics Engineer, NLP and many more[2]. Whereas people with less or near to zero knowledge of AI will have to suffer with job shortage. Another developing field is Semiconductors. Professionals with good knowledge and skills for development for semiconductors will have a good opportunity for having a good job in the future. To conclude, Mobile technology industry have been developed a lot since past and a lot has yet to change in the future but everyone should update themselves with the upcoming trends.

References:

[1] Hartley. Charlton. **“3nm Apple Silicon: What Is It and Why Does It Matter?”**

MacRumors. Accessed: Sep 17, 2023. [Online]. Available:

<https://www.macrumors.com/guide/3nm/>

[2] E. Niewiarowski. **“Want a career in AI? Consider these 8 in-demand job roles.”**

Pink News. Accessed: Abbreviated Sep 19, 2023. [Online]. Available:

<https://www.thepinknews.com/2023/03/09/ai-career-job-demand/>