



UTM
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FACULTY OF COMPUTING
UTM Johor Bahru

SECP1513-05 TECHNOLOGY AND INFORMATION SYSTEM

INDIVIDUAL REFLECTION ON ASSIGNMENT 3

SECTION: 05-SECRH

COURSE NAME: BACHELOR OF COMPUTER SCIENCE (COMPUTER NETWORKS & SECURITY)

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During the industry visit 3 on Artificial Intelligence (AI) in agriculture, I learned how AI and the Internet of Things (IoT) are transforming farming practices to improve efficiency, sustainability, and productivity. One of the key takeaways was precision farming, which allows farmers to optimize resource use, minimize waste, and increase crop yields. AI-driven crop monitoring systems also provide real-time insights into plant health, enabling better decision-making for plant growth and pest control.

The visit also highlighted advancements in livestock farming, where smart collars and automatic feeders enhance animal care and productivity. Additionally, AI tools for soil and crop analysis offer valuable information to improve harvests, while smart irrigation systems ensure crops receive the right amount of water based on current conditions, reducing resource wastage. Automated harvesting and crop forecasting technologies further demonstrate how AI can streamline farming operations.

Overall, the visit emphasized how AI and IoT are revolutionizing agriculture by addressing global challenges such as food security and sustainability. These innovations not only increase farm efficiency but also reduce environmental impact, ensuring a smarter and more sustainable future for agriculture. This experience has broadened my understanding of how technology can shape the future of farming.