INTRODUCTION

The Bioinformatics Workshop was a talk given by Sayang Elyiana Amiera Binti Helmey, a recent Computer Science in Bioinformatics graduate and a Product Data Analyst at Steelcase. She shared regarding the applications of bioinformatics, emerging trends, and key transferable skills for bioinformaticians. She also highlighted the widespread career opportunities available to bioinformatics graduates, emphasizing that their career paths have more thing to offer than traditional bioinformatics roles.

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EXECUTIVE SUMMARY

Bioinformatics combines biology and computer science to analyze complex biological data. This shows advancements in disease detection & personalized medicine. Thus, helping experts to understand more regarding diseases and treatments.

Trends such as AI and machine learning will revolutionize data analysis and predictions, and next-generation sequencing (NGS). Big data is still important, with AI and ML enabling the processing and analysis of huge datasets.

Artificial Intelligence & Machine Learning

Additionally, bioinformatics develops essential IT skills, such as data visualization and algorithm development which will open many career paths, including roles such as bioinformaticians & data scientists.

BIOINFORMATICS WORKSHOP

BY: SAYANG ELYIANA AMIERA BINTI HELMEY
(PRODUCT DATA ANALYST AT STEELCASE)

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CONTENT

What is Bioinformatics?

A combination of biology and computer science that uses techniques such as data mining and visualization to analyze large amounts of biological data.
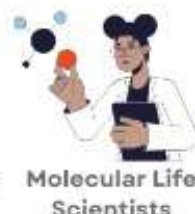
Careers?

Bioinformatician

Molecular Life Scientists

Mathematicians

Main Point

Speaker now currently works as a data analyst at a manufacturing company where she analyzes customer preferences for the company's products even though she graduated with a degree in bioinformatics.

The skills she learnt during her degree years has helped her to be creative when solving problems outside of bioinformatics. this shows the importance of adaptability in order to succeed in future jobs.

REFLECTION

We agreed that this workshop gave us a good outlook regarding bioinformatics and its relevance. It emphasizes on combination of biology and computer science to addresses real-world problems, such as disease detection. The speaker's personal journey and experiences showed how bioinformatics skills, such as data visualization, IS not only important but also transferable to a lot of career paths. Moreover, this workshop motivated us to explore diverse applications within our own field which will stay us updated with emerging trends like AI to prepare us for the job market.