

Digital Technologies Report

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Submission date: 29-Apr-2024 07:16PM (UTC+0100)

Submission ID: 231385666

File name: 17634_Gabriela_Ciuba_Digital_Technologies_Report_572534_244867170.docx (267.09K)

Word count: 956

Character count: 6254



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Digital Technologies

DIGITAL SKILLS

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'This project is submitted in partial fulfilment of the requirements for the Certificate of Higher Education:

Digital Skills, University of Wales Trinity Saint David'

29 April 2024

DECLARATION

'I have read and understood the University Regulations concerning plagiarism and I undertake:

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Introduction

In today's "Information Society," technology is transforming how people live. Globalization of work, instantaneous personal communication, and 24/7 access to information are all features of

modern life. To comprehend and manage these changes as a person progresses through the many periods of life, digital skills are required.[1]

Over the past decade, impressive advances in information, communication and connectivity technologies have enabled new functionalities to become available. Moreover, products and services increasingly incorporate digital technologies. Digital platforms are giving rise to new forms of business strategies.[2]

Career fair poster

The aim of the task was to create a promotional poster for a digital industry. The poster is intended to serve as an encouragement for young people leaving school. The primary focus of the poster will be on the digital tools that professionals in the field employ.

The free online graphic creation tool Canva was used to create the poster. [3] Canva is an online template editor application that allows users to create websites, merchandise, presentations, and images for social media. The online poster creator offers enormous possibilities. Just choose a poster template and customize it. Thanks to the intuitive drag-and-drop poster creator, you can easily implement any idea.

The following chapters describe the digital resources used by industry professionals presented in the poster.

Software engineers and programmers

The demand for software engineers is on the rise. Programming languages are widely used, and their popularity stems from their superior performance in particular domains. For instance, Java's dependability and cross-platform adaptability make it a popular choice for corporate applications. Because of its ease of use and abundance of libraries that facilitate data analysis, Python has grown to be a preferred choice among scientists and data analysts.

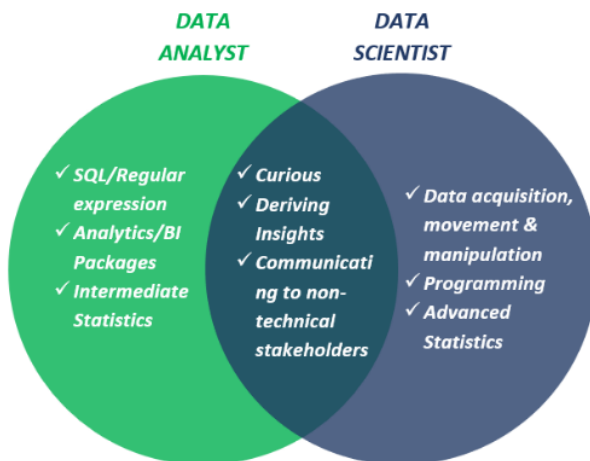
Another well-liked programming language that rules the web development industry is JavaScript. Another flexible technology that is frequently utilized in operating systems, video games, and engineering software is C++. [4]



[5]

Data scientists and data analytics

In the industry, data analysts are tasked with assisting corporate executives who collaborate to use data to advance a department. Data scientists are very beneficial to businesses due to their capacity to apply relevant trends and make well-informed conclusions in business decision-making.[6]

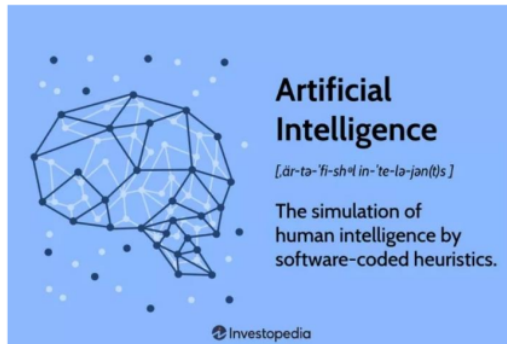


[6]

Machine learning and artificial intelligence

Organizations can benefit from the automation of several manual data-related and decision-making processes through the use of artificial intelligence and machine learning.[7]

The term "machine learning" refers to a collection of methods that are frequently applied to solve a wide range of real-world issues using computer systems that are capable of learning to solve problems without explicit programming. [8]



[9]

Benefits of digital technology

Employment is rising in the sectors with better educational attainment, more digital material, and more innovative activity. All of these seem to have complimentary effects when it comes to the potential for technological and digital progress to produce jobs. The most visible effects of digital transformation can be seen in customer experiences. According to the survey, the area where companies used digital technology most effectively was enhancing interactions with customers. Improving products and services in a consumer-friendly way was most visible, followed by improving the overall customer experience. [10]

In today's highly digitalized world, businesses function within deeply entwined business ecosystems; as a result, it is impossible to conceptualize a digital business strategy without taking into account the company ecosystem, alliances, partnerships, and rivals. Additionally, by utilizing digital platforms, businesses can operate in previously undefined sectors and niches as well as transcend conventional industry boundaries. [2]

Conclusion

Digital skills are necessary for every kind of profession. All staff members must be computer literate, and those who create and manage systems must possess technical expertise. Although the phrase "e-leadership" is relatively new, it is essential for businesses to be competitive in the current global economic landscape. [1]

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Digital Technologies Report

GRADEMARK REPORT

FINAL GRADE

95/100

GENERAL COMMENTS

POSTER (22%)

- Clear poster design with good title and use of images. To make it more readable, a clearer font could be used.
- Good use of titles, tagline, headings and inclusion of name and number (email).
- Some well researched and very good information is delivered through the poster numbered with references.
- Simple colour scheme is effective.

REPORT (15%)

- Well laid out academic report, with good cover page, contents, introduction, headings and conclusion.
- Cover page has all the right information, module, name, number and university.
- Well researched and written report demonstrates good knowledge learned.
- Text numbered throughout report in the correct manner and good number and range of references mostly to IEEE conventions. It would

have been beneficial for
websites to have a date accessed as well.

**Evidence of 5 online courses evidenced
on portfolio with screenshots (30%).**

PRESENTATION (28%).

.
Very
well laid out presentation, clear, concise and a nice
choice of theme and use
of images.

.
Well
written and broken down into bullet points.

.
Good
demonstration of knowledge gained.

.
Good
critical analysis of the module and the subjects
covered.

Overall 95%

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PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7
