

DIGITAL TECHNOLOGIES : THE FUTURE OF WORK

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INTRODUCTION

One of the world's most fascinating and rapidly expanding industries is digital technologies. Software development, data science, machine learning, artificial intelligence, and user experience/user interface (UX/UI) design are just a few of the many disciplines that fall under this umbrella. Experts in the field of digital technologies employ an array of software applications and digital instruments to address practical issues and generate inventive goods and services. These are vital instruments for their work, and as new trends and technology arise, they are always changing.

SOFTWARE DEVELOPERS AND PROGRAMMING LANGUAGES

Java, C++, Python, JavaScript, and numerous others.

These programming languages are used to write software for a variety of platforms, including artificial intelligence systems, video games, and websites and mobile apps.

Programming languages are used by software developers to create software for a variety of uses. They might create a new system to assist companies in more effectively managing their inventory, or they might create a new smartphone app that assists consumers in finding the best grocery discounts. [1]

CLOUD ENGINEERS AND CLOUD COMPUTING PLATFORMS

Google Cloud Platform (GCP), Microsoft Azure, and Amazon Web Services (AWS). These platforms offer a range of services that companies can utilise for data processing and storing, application development and deployment, and other purposes.

Applications for cloud computing are developed by utilising frameworks and platforms. From the basic framework to the customisable apps fulfilling specific requirements, many kinds of services are provided.[3]

What Programming Language Should You Learn?

Common languages you should learn based on where you want to work

Web-Based Startups	Large Companies	Data Analytics Programs
Python	C#	R
JavaScript	Java	MATLAB
	PHP	
Embedded Devices	Cloud-Based Applications	Mobile Applications
C	Go	Swift
C++	Scala	Kotlin
Rust		

[2]

DATA SCIENTISTS AND BIG DATA ANALYTICS TOOLS

Spark, Hive, and Apache Hadoop. Large volumes of data are gathered, stored, and processed using these techniques. Massive volumes of data are gathered, stored, and processed by data scientists using big data analytics techniques.

They might use this information, for instance, to create new fraud detection algorithms or to spot patterns in the behaviour of their customers.[5]

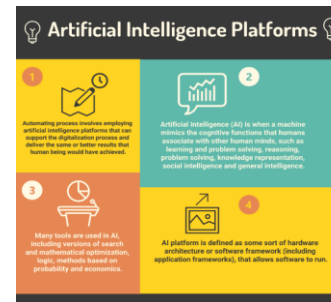


[5]

MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE (AI) PLATFORMS

Azure Machine Learning Studio, PyTorch, and TensorFlow. The creation and implementation of AI and machine learning models is facilitated for developers by these platforms. Machine learning engineers create and implement machine learning models using AI and machine learning platforms.

They might create a model that can identify fraud, for instance, or one that can suggest items to clients based on their previous purchases.[6]



[6]

WEB DESIGNERS AND PROTOTYPING TOOLS

Tools for design and prototyping: Adobe XD, Sketch, and Figma.

These resources are employed in the design and prototyping of digital products such as mobile apps and websites. Websites, mobile apps, and other digital products are designed and prototyped by UX/UI designers using design and prototyping tools. For instance, they might create a new mobile application for a bank or a new website for a business.[7]

Key Features, Strengths, and Use Cases of Popular UI and UX Design Tools			
UI/UX Design Tools	Features	Strengths	Use Cases
Figma	Supports advanced design tools and real-time collaboration.	Cloud-based nature, seamless collaboration.	Create graphics, interactive prototypes, websites, and more with real-time collaboration.
Adobe XD	Supports online prototyping, auto-animate features, and repeat grid tool.	Quick mockups, extensive assets, and integration with other Adobe tools.	Create digital design and prototyping user interfaces (UI) and user experiences (UX).
Sketch	Resizable components, plugins, and shared libraries for teams.	Extensive plugins, ecosystem.	Create concept pages, forms, and other web elements.
InVision	Responsive design, rapid prototyping, and advanced animations.	Assets sharing, giving and getting real-time feedback.	Basic prototyping, collaboration (Freehand), and handoff (Freehand) capabilities.
Balsamiq	Extensive library of UI elements, drag-and-drop functionality, and flowchart capabilities.	Good for beginners or quick, low-fidelity wireframes.	Create quick wireframes and mockups, ideal for sketching.
Marvel	Use testing features like user flows, hotspots, and screen recordings.	Get valuable insights with help of user testing features.	Create all sorts of mockups, prototypes, and wireframes.
axure	Conditional logic, variables, advanced views and automated documentation.	Advanced interaction features for complex projects and detailed prototyping.	Built for interaction design and functional prototyping.

[8]

CONCLUSION

A job in digital technologies has a lot of benefits, such as:

- High contentment at work
- High potential salary
- Fantastic prospects for growth
- The chance to work on innovative and challenging projects
- The capacity to actually change the world

There are numerous career options available to you if you're interested in a career in digital technologies. You can work in a number of industries, such as healthcare, finance, retail, and more, if you have the appropriate qualifications and training.



[9]

CALL TO ACTION

Visit our booth at the career/job fair to learn more about our digital technologies programs and start your career today!

ACKNOWLEDGEMENT

This poster is designed by Syed Saqib Hussain on PowerPoint



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