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Machine Learning's Current Applications and Future Impact in Radiology

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## Abstract: (600 Words)

With the advent of technology transformation in the fast-changing and ever-evolving world of Information, Communications and Technology (ICT), the importance of data is supreme. This is often being referred to as big data and is perhaps the single most entity which forms the backbone of any major transformation within any large global corporation across industries. Data is no longer being looked and used as a tactical medium for storage or operations; on the contrary, it becomes extremely strategic in nature. In fact, the 3 main pillars of today's disruptive world of digital are driven by big data, IoT, and cloud. Out of which big data is the nucleus of transformation. In the world of digital, this is very well centered on three main life cycle entities. They are the customer, the product, and the revenue. Each of these, i.e. customer life cycle, product lifecycle and revenue life cycles behave very differently from one another. The practical emphases of data in each of these entities are also very different and unique. The concepts of big data within these 3 life cycles are core to the change we witness in the world of digital. Each data entity centered on these life cycles is instrumental in C-level decision making and major change management that happens within the organization. The data element acts as a central aspect to strategic decisions whether it comes to new product/service development or behavior of customer or user data, appreciation or acknowledgement of revenue. All use cases around big data will be largely centered on these and any specific case would be a secondary derivation of the above.

#### Importance of Research: (200 Words)

Artificial neural networks are statistical and mathematical methods that are a subset of machine learning. These networks are inspired by the way biologic nervous systems process information with a large number of highly interconnected processing elements, which are called neurons, nodes, or cells. An artificial neural network is structured as one input layer of neurons, one or more "hidden layers," and one output layer. Each hidden layer is made up of a set of neurons, where each neuron is fully connected to all neurons in the previous layer. The strength of each connection is quantified with its own weight. For the network to yield the correct outputs (eg, correct detection and classification of findings on images), the weights must be set to suitable values, which are estimated through a training process. Learning in artificial neural networks could be supervised, partially supervised, or unsupervised.

### **Biography: (200 Words)**

Shabir Momin became the youngest CTO, he was also awarded as the Entrepreneur of the Year in 2013 by TIE. He has had a successful track record in various technology and business positions at a CXO level for few years before he became an entrepreneur. He has sold few ventures in the past and his current ventures that he has founded and co-founded are ZengaTV, one of the leading OTT services in India, OneDigital Entertainment Largest, a Digital content company in India, OneAxcess.com. He is a successful Entrepreneur and a professional with an excellent track record in technology innovation, especially in the digital media and convergence technology. In the past, he has been the Head of Asia for a technology innovation company called Picsel Technologies (UK) and Sentac Inc. (USA). He has also been CEO Asia for I-Connect

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July 25-26, 2022 London, UK Inc., a US based MNC, an operation comprising more than 9000 employees working out of the Asia Pacific region.

# Information of Institute: (200 Words)



The company was incorporated on 27 March 2003 as part of Marico Limited. It was demerged from Marico in September 2013 to become an independent entity and is currently traded on the National Stock Exchange as KAYA. There are more than 70 Kaya Clinics across 26 cities in India, Kaya also has 23 clinics across 3 countries in the Middle East and e-commerce portals in India & Middle East. In 2010, Kaya Limited acquired Singapore-based Company Derma Rx, which they later divested to KV Asia Capital in December 2013 in the same year; Marico demerged its specialty chain Kaya into a separate company, Kaya Limited. In 2016, Kaya rebranded itself as Kaya Clinic.

## References (15-20)

1. Erickson BJ, Korfiatis P, Akkus Z, Kline TL. Machine learning for medical imaging. RadioGraphics 2017;37(2):505–515. [PMC free article] [PubMed] [Google Scholar]

2. Wang S, Summers RM. Machine learning and radiology. Med Image Anal 2012;16(5):933–951. [PMC free article] [PubMed] [Google Scholar]

3. Jordan MI, Mitchell TM. Machine learning: trends, perspectives, and prospects. Science 2015;349(6245):255–260. [PubMed] [Google Scholar]

4. <u>Kohli M, Prevedello LM, Filice RW, Geis JR.</u> <u>Implementing machine learning in radiology practice and</u> <u>research. AJR Am J Roentgenol 2017;208(4):754–760.</u>

#### [PubMed] [Google Scholar]

5. Deo RC. Machine learning in medicine. Circulation 2015;132(20):1920–1930. [PMC free article] [PubMed] [Google Scholar]

6. Mohri M, Rostamizadeh A, Talwalkar A. Foundations of machine learning. Cambridge, Mass: MIT Press, 2012. [Google Scholar]

7. <u>Dayhoff JE</u>, <u>DeLeo JM</u>. <u>Artificial neural networks</u>: <u>opening the black box</u>. <u>Cancer 2001;91(8 Suppl):1615–</u> 1635. [PubMed] [Google Scholar]

8. LeCun Y, Bengio Y, Hinton G. Deep learning. Nature 2015;521(7553):436–444. [PubMed] [Google Scholar]

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