



## How Digitalization is Advancing Ophthalmology

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Down the years of ophthalmology, research scientists, technicians have always tried to come up with advanced and effective ways to diagnose, treat and even sustain the healthy state of human eyes. Though the field has seen some incredible techniques to help humans, in times like these, when digitalization is approaching its heights, it's been prevalent how digitalization can advance ophthalmology.

### Why does ophthalmology need digitalization?

While little do we take precautions about our eyes, these are organs needing utmost care and precautions. Keeping in mind the increasing pollution, screen usage and continuous degrading lifestyle, eyes suffer a lot. These lead to vision problems at an early age, allergies, recurrent inflammation, infections and whatnot!

Often, ophthalmologists suggest early detection or diagnosis of refractive error allergies and infections as an effective way to treat diseases on time. Therefore, it would be of the utmost advantage to integrate digitalization and ophthalmology basic principles to discover effective ways to diagnose, identify and treat eye diseases at the right time.

### Digitalization and ophthalmology

With increasing pollution and excessive uses of screens, ocular diseases are becoming common these days. It would not be of surprise to diagnose vision problems, eye allergies in people of all ages. With such a critical situation at the edge, we must buckle up and become extra ready for the current as well as for the future.

That's where digitalization in ophthalmology can be sight-saving.

### Sight-saving techniques

Be it digital health devices or early diagnosis software and

products, digitalization with core principles of ophthalmology can be sight-saving for people with ocular disorders, vision problems, etc. These can closely monitor eye health and can send alerts for early signs of diseases. This realtime eye condition monitoring can save patients from last moment chronic conditions.

Digital health devices such as mobile phones, tablets when installed with specific software can mitigate the risks of ocular diseases as these can update about air quality index, possible eye problems and whatnot!

### Early battle win

Believe it or not, digitalization in Ophthalmology can make you win battles early in life. With a diagnosis at the right time, the right treatment can be ensured. On the other hand, these can also help research scientists and analysts to interpret results at the right time.

Introduction of "Ai Powered Virtual Ophthalmology Assistant" elevates the quality of medical treatment by seamless, accurate and fast information sharing and treatment at the right time.

### Backed by AI and machine learning

The latest and advanced digital devices, software and hardware amalgamation has helped medical science to significant degrees but the advancement brought by AI and machine learning opens up new dimensions. The data collected from digital devices, telemedicine and also for research analysis is leveraged and interpreted to the right extent by defined algorithms and AI and machine learning.

Not only this, but these tech advancements also back up the ophthalmology field and various research analysts to interpret and comprehend data carefully to predict and study possible diseases

and ocular disorders. This also helps in establishing a better understanding of eye health, how and what factors affect human health and to what extent!

Today, medical science is greatly favoured by digitalization and therefore maintaining sustainable digital health is of extreme importance today keeping in mind our lifestyle, surfacing diseases and possible disease outbreaks.

Gravitas AI, UK has introduced "World 1st AI Powered Ophthalmic Assistant" to enhance patients' experience and offer service providers to improve productivity. For more details log on to <https://gravitas.ai/>

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