

# Global Summit on PANCREAS, GASTROENTEROLOGY AND DIGESTIVE DISEASES

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## Artificial intelligence, Metaverse and Dermaverse: The new Horizon to surf for the dermatology and allied sciences

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**Introduction:** We all live in a world full of technologies and internet. The artificial intelligence (AI) as termed by John McCarthy is a branch of computer science dealing with the simulation of intelligent human behaviour in computers. AI has many uses in the subject of medicine, but its application in dermatology is relatively new. The metaverse has rapidly become a part of life for the digital native population and includes virtual reality (VR), augmented reality (AR) and mixed reality (MR) technologies.

**Methodology:** This is a comprehensive review article as the emergence of AI and Metaverse is comparatively newer concepts. The exhaustive search was done including Google Scholar, Pubmed, Embase, Web of science without any language filter using the following key words "artificial intelligence", "metaverse", "machine learning" for the field of medicine. A total of 23 articles were matched and included in our study.

**Results:** The main applications of AI in medicine are in radiology, pathology, and dermatology. In 2018, FDA approved unguided AI tool (IDx-DR) for the diagnosis of diabetic retinopathy, is an example of applied AI in medicine. Particularly for the dermatology, AI has been used to distinguish between benign and malignant lesions, Mohs micrographic surgery, for Dermoscopic images, ulcer assessment and others. Also creating a virtual patient (Dermaverse- 3D) is the new era tech that can transform the field of the medicine in near future.

**Conclusion:** Dermatology is a visual speciality ripe for research in this field, as the skin is an accessible organ amenable to an array of digital technologies. Clinicians, trainees and patients are key stakeholders in the development of the health metaverse and should be encouraged to be engaged and advocate for the needs of the population for the future.