Artificial Intelligence and Improved Health Care!

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Introduction

Cloud computing provides an easy way to store and share data via internet (such as e-mail). Cloud provisions such as Amazon Web Services and Microsoft Azure are being suggested by big software companies such as Amazon and Microsoft, respectively, for betterment of the healthcare sector.

Once hosted on cloud, the CNN model can be retrieved via internet anywhere across the globe by approved hospitals and diagnostic centres. Cervical smear pools composed by these healthcare centres should be examined by pathologists working there and by the CNN model (via internet). Match/mismatch between the discoveries of pathologists and the CNN shall help in easy assessment of the CNN tool. Modifications in the algorithm can be represented to optimize the performance.

Once the performance of the CNN tool is found to be adequantly good, it can be made obtainable (via internet) to healthcare centres in areas facing shortage of medical facilities, adept pathologists and doctors. In such places, the disease usually remains undetected and leads to mortality. Images of a cervical smear can be easily transferred in the CNN tool by the permitted medical practitioner working in such healthcare centres. In the absence of skilled pathologists, images shall be examined by the CNN tool to detect malformation in the smear.

The patient need not wait for many days for the results as AI tools take very less time in clarifying the images. The patient diagnosed with malfunction in the smear shall endorsed to seek medical help for further investigation and treatment.

Similar AI tools available via internet are already being used by primary healthcare centres in the USA for identifying diabetic retinopathy. However, India lacks in this considertion. AI tools are not a substitute for doctors/pathologists. These tools should be regarded as a technological aid for doctors as these can help remarkably in early diagnosis of the disease. AI-based healthcare tools accessible via internet shall make healthcare facilities quite avaialable and affordable in rural parts of the country.

Machine learning is a statistical technique for attaching models to data and to 'grasp' by training models with data. Machine learning is one of the major common forms of AI; in a 2018 Deloitte survey of 1,100 US managers whose organisations were already chasing AI, 63% of companies surveyed were employing machine grasping in their businesses. It is a broad technique at the core of many proceed towards to AI and there are many versions of it.

Conclusion

The disease usually remains undiscovered and leads to mortality. Images of a cervical smear can be simply uploaded in the CNN tool by the authorized medical practitioner functioning in such healthcare centres. The patient diagnosed with abnormality in the smear shall be endorsed to seek medical help for additional investigation and treatment.