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Adamas University, ESS to develop automated diagnostic tool for COVID-19

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Kolkata based Adamas University has signed a project based Memorandum of Understanding, with Elmax Systems & Solutions (ISO 9001:2015 Certified company and enlisted with MSME. Govt. of India) in Kolkata to develop a cloud based automated diagnostic tool to detect coronavirus disease using radiographs.

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The novelty is in a single point multi-hypothesis based faster detection of COVID-19 from Radiography images & other medical vital conditions with severity score tag for early detection of nCOVID-19 patients and necessary measures.

The Automated Detection Tool developed by Adamas University and ESS aims to offer a valuable second opinion to the doctors and assist them in the screening process. This type of mechanism will provide results to the doctors quickly and in an efficient and accurate manner.

Mr. Debashis Chakrabarti, CEO of ESS and alumni of IIT-Kharagpur said that, “In this software, we have developed an Artificial Intelligence based Technique for detecting COVID-19 on Chest Radiographs(X-Ray or CT Scans) ,other medical vitals like temperature , saturation percentage of Oxygen and even pathological data from Blood Routine Examination like Leukocyte, Lymphocyte & Neutrophil.”

The technique would also act as an aid to the conventional RT-PCR based method to isolate the contracted individuals.

The project will see utilization of the techniques of data science and machine learning on radiograph images along with other parameters to successfully detect the COVID-19.