iris

COMPANY OVERVIEW

IRIS was incorporated in 2018. The company is revenue producing and winning competitive procurement bids against long-standing industry players, the most recent of which was the City of Vaughan Road patrol RFP. IRIS received funding from a billion-dollar Oakville Ontario-based telematics company and completed a late-seed round of financing. IRIS currently has 14 employees. IRIS' core technology is computer vision with deep learning as the engine of their flagship products including the proposed IRIS-RCMTT (Remote Cardiorespiratory Monitoring Thermal Technology) COVID-19 solution.

LOCATION: BURLINGTON, ON

TECHNOLOGY

Artificial Intelligence

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MITIGATING RISK OF ASSESSING COVID-19 PATIENTS

IRIS' new RCMTT technology assesses patients through thermal camera-based imaging. Using automated computer-based analytical tools and the images provided by the IRIS thermal camera, IRIS' new tool can function without direct physical contact required by screening physicians. The camera operates at a distance from a potentially infectious patient, requiring no direct physical contact with the patient.

BRINGING RCMTT TO THE MASSES

The RCMTT product will deploy and expand to multiple hospitals in Ontario as well as offer the service as an API to thermal companies such as FLIR, Longan Vision, et al.

The prototype consists of:

- Thermal Technology: Thermal camera is themed for generating thermal imaging of a person/patient.

- Computer Vision: Machine learning and computer vision technology are used to measure the cardiorespiratory rate with accuracy.

- Front end / Back-end application development

PROCESSING MULTIPLE HTTPS REQUESTS AND IMPROVING AI ACCURACY

Coming to CENGN, IRIS wanted to identify if their platform could process multiple HTTPS requests at the same time and train their AI model to achieve 80% accuracy. Leaving CENGN with a successful project outcome, IRIS can easily handle high-volume HTTPS requests with less computing power than originally expected and has an AI model that is 98% accurate.

> "Thanks to the CENGN Testbed, our backend structure was upgraded to better handle concurrent requests and our AI model now has an improved 98% accuracy rate."

Kevin Xia
VP of Technology, IRIS