

Automated Scoring Software for Sleep Studies done at Home or in the Lab



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Interview conducted by:
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CEOCFO: Mr. Fernandez, would you tell us about EnsoData?

Mr. Fernandez: Our vision is to bring a massive efficiency time savings and cost savings to healthcare through the use of artificial intelligence technologies and big data. In today's healthcare realm, more and more data is being collected each day whether from diagnostic centers, increasingly connected therapeutic devices, real-time monitoring in the operating room and ICU, home health and wearable devices for chronic disease patients. Medical data generated in unprecedented volume, variety, velocity, and veracity is collected at the terabyte scale in sleep clinics and health systems more broadly every day. Our physicians and clinicians have a decreasingly effective ability to deal with it on a human scale. In our view it is going to be necessary to have artificial intelligence technologies that ingest these massive amounts of data to automatically analyze it, provide continuous automated expert monitoring, and distill down the most important aspects of it for clinicians to interpret and use to take action.

CEOCFO: Many companies have gone beyond Big Data Analytics to just wanting to get reports. Do you find that healthcare is a bit late to understanding that would be a better approach?

Mr. Fernandez: I think that based on the regulatory environment through the FDA and HIPAA and through the criticality of providing healthcare services and being responsible for peoples' lives, healthcare has always been one of the last industries to adopt some of the major technological advancement that we have seen over the last few decades. As many folks know, machine learning and artificial intelligence technologies would become absolutely ubiquitous in consumer computing technologies with things like SIRI and Alexa, Google Search and Google Maps, Facebook newsfeed and Tesla self-driving vehicles. We interact with these technologies every day and maybe every hour as regular consumers but as patients I think we rarely use these technologies or are impacted by them today because we are just starting to see the proliferation into healthcare.

CEOCFO: What is Enso doing to help solve the gap?

Mr. Fernandez: Enso Data is creating a big data in advance algorithm engine that ingests waveform sensor data and automates real-time monitoring, pattern recognitions and trend identification. Our first product applies that engine to the analysis of sleep data and in doing so, automates one of the most arduous and time-consuming data analysis tasks in all of healthcare that humans perform today and that is called sleep scoring.

CEOCFO: Why did you start with sleep?

Mr. Fernandez: We started with sleep because we saw the opportunity that was very broad and very immediate and we wanted to go after it. We know that in the US the Center for Disease Control and the American Institute of Medicine have estimated that fifty to seventy million Americans are affected by some kind of sleep or wakefulness disorder. Among