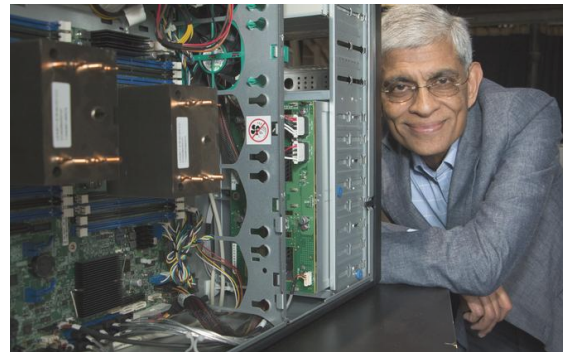


TECHNOLOGY

Health Care of the Future Entrepreneur Award winner 2019: Ganapati Srinivasa, Omics Data Automation



Ganapati Srinivasa CEO of Omics Data Automation.

CATHY CHENEY|@PORTLAND BUSINESS JOURNAL



By Malia Spencer
Staff Reporter, Portland Business Journal
Oct 3, 2019, 5:10pm EDT

Ganapati ‘Gans’ Srinivasa isn’t a geneticist or an oncologist. However, he aims to make a huge difference in the lives, and survival rates, of cancer patients.

Srinivasa is co-founder and CEO of Omics Data Automation. Though his background is steeped in software and computer engineering, he is applying that computing know-how to health care.

Omics operates in the world of precision medicine, and his goal is to make it so a cancer patient can walk into an oncologist’s office and within one day have a

treatment based on her or his genetic profile.

Omics builds software tools that help process and connect electronic health records, genomics, imaging and other data that make precision medicine possible.

The team released the framework to enable the connections earlier this year, along with two application tools. One is called MyPatient360, which takes patient data and applies machine learning and visualization to explore information and glean insight. The other tool is called MyCohort360, which helps users take large data sets and organize them for efficient analysis.

“In parallel we have developed tools for both clinicians and researchers to be able to access the data housed in our framework,” Srinivasa said in an interview last year with the publication Tech Company News.

In a 2017 video, Srinivasa explains the importance of the work this way: if a doctor can easily see what is wrong with a patient's genes due to a cancer, and if they can also look in a giant data set for others that show similar gene abnormalities plus a treatment that worked, then it can greatly reduce the time it takes patients to find an effective treatment. That can result in longer survival.

“It’s finding the needle in the haystack,” he said.

Omics was founded in 2016. It has 14 employees and has secured \$1.2 million in funding from backers including the National Science Foundation and Business Oregon.

Srinivasa spent 22 years working at chipmaker Intel. There he was chief architect for the company’s Xeon server chips. While at Intel, Srinivasa helped lead a project in collaboration with Oregon Health & Science University called the Collaborative Cancer Cloud. That project is designed to help develop next-generation computing technologies that harness big data to make analyzing a patient’s genetic profile faster, cheaper and more precise.

It’s only natural that Srinivasa’s work with the Collaborative Cancer Cloud would evolve into Omics Data Automation.

The startup's leaders consists of people with deep industry knowledge on both the computing side, like Srinivasa, as well as health care and genetics.

“We hope to disrupt current treatment of complex genetic diseases,” Srinivasa told Tech Company News. “We want to eliminate current data silos and enable computation across all relevant medical data to create insights which are difficult to obtain without a computational resource. We want to provide a robust framework, and tools so that doctors and researchers can work together to create a more personalized treatment plan.”

Entrepreneur Award

The Entrepreneur Award is presented to an Oregon or S.W. Washington entrepreneur leading an early- to middle-stage growth company that has the potential to scale and have a significant impact on the health care industry.

About the winner

Ganapati ‘Gans’ Srinivasa

Title: Co-founder and CEO, Omics Data Automation

Why he won: Omics Data's framework allows health care providers and researchers to search vast amounts of data to better target cancer treatments based on a patient's unique genetic profile. The company has received more than \$1.2 million in funding from the National Science Foundation, the Department of Energy and Business Oregon to advance product development. It also recently announced a collaboration with the government of India's IIT-Madras Institute to help build a National Tissue Bank, a project that will enable diversity of public genomic data.

Career highlights

Srinivasa led the Xeon server architecture team at Intel Corp. that saw the company's market share rise from 60 percent to 92 percent.

He led the Intel portion of the Collaborative Cancer Cloud project with OHSU, Dana Farber Cancer institute in Boston and Ontario Institute for Cancer Research.

He worked with the Massachusetts Institute of Technology Broad Institute and Harvard to speed the performance of the Genome Analysis Tool Kit by an order of magnitude.

Holds 39 patents across bioinformatics, genomics, medical imaging and process architecture.