Inspirational Interview



Devaki Chandramouli Bell Labs Fellow and the Head of North American Standardization at Nokia

Devaki is a Bell Labs Fellow and the Head of North American Standardization at Nokia. She is also a senior IEEE member and has authored books on "LTE for Public Safety" (Wiley, 2015), "5G for the Connected World" (Wiley, 2019). She also holds over 287 granted patents worldwide with many pending patents in wireless communications. She holds her B.E. degree from University of Madras, India, M.S. degree from The University of Texas at Arlington. She lives in Plano, TX with her husband, Kuttayan Annamalai (Partner at Deloitte) and her son, Shyam Annamalai (Freshman at UT Austin).



Annapoorani Vivek, Rochester Hills, MI (Interviewer)

great volunteer of NSNA, Michigan Tamil Sangam, Michigan Tamil School and AIM for Seva. Volunteering is a significant part of her life. She is truly an inspiring sports person and encourages her friends to participate in sports person and help them stay fit.

Background and family:

Devaki Chandramouli was born in Thanjavur excel in their respective fields. to A.L. Chandramouli and Alamelu Alagappan. Both her parents worked in banks and had transferrable Journey from Nortel to Nokia: jobs, leading to frequent relocations. Therefore, for six years, Devaki and her sister resided in Kottaiyur with their Grandmother, During this time, she pur- the opportunity to collaborate on a project with a sued her middle and high school education in Chid- team in Nortel (once a telecom powerhouse). This ambaram Chettiar Higher Secondary school. She collaboration ultimately led to her decision to join then continued her higher secondary and college Nortel, taking the first step into her desired career education in Chennai.

Entering US and pursuing her education:

Kuttayan Annamalai, and then she did her Master's search and standards development for wireless in Computer Science at UT Arlington. There she technologies in order to gain a broader understandlearned under several eminent professors, who left a ing of the entire system. This trajectory continued as lasting impact on her career and her endeavors in she pursued similar endeavors at Nokia and is presthe technology field.

Women role models in her life:

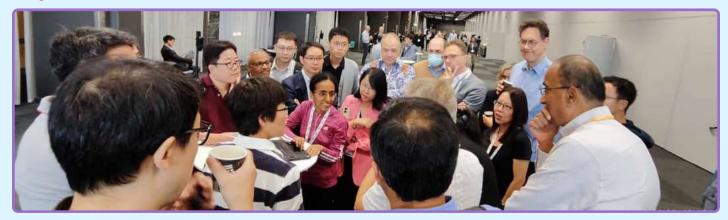
Devaki Chandramouli was profoundly influenced by the women in her life, particularly her thor, has been responsible for key contributions in mother, a working woman who instilled in her the field of telecommunications. She and her co-ausignificance of education, pursuing a career, and thors leveraged their experience in technology defostering independence. Another notable figure who velopment to author books on 4G and 5G. Believing inspired Devaki was Indra Noovi, the former CEO of in the obligation to disseminate the latest advance-Pepsi. Indra Nooyi's trailblazing journey as one of ments, she endeavors to cater to diverse audiences the first women CEOs at a top American company ranging from technology developers to students ashas broken numerous barriers. Her achievements piring to enter the field and individuals seeking a

served as a powerful inspiration for individuals like Devaki, encouraging them to push boundaries and

During her Master's program, Devaki seized field, working as a software designer focused on programming for embedded systems—a role that provided a high-demand and challenging experience, marking her first real foray into the profes-She came to the US after getting married to sional world. After six years, she transitioned to reently a trailblazer in this field.

Experience as an author:

Devaki Chandramouli, an accomplished au-



Devaki at Standardization Meeting

general understanding. Recognizing the crucial as- extends its impact to smart manufacturing, allowing pect of timing in the ever-evolving tech landscape, industries to replace bulky cables with efficient 5G her books focus on futuristic technologies with a wireless connectivity for seamless machine comkeen eye on relevance. Her books were also adopted munication and operation. As we look ahead, the by some universities such as Illinois Institute of prospect of 6G technology, still in the research Technology (Chicago, Illinois) and Tampere Univer- phase, holds promises of improved coverage capacsity (Finland) as part of their curriculum for wireless ity and speed. Additionally, it aims to leverage AI and communication courses. Her journey began with machine learning, fostering synergy between these "LTE for Public Safety", evolving into co-authoring technologies for more sustainable solutions, reductwo more books, including "5G for the Connected ing the energy consumed per bit transfer, and pro-World".

What is LTE, 5G, and the future of wireless commusatellite-based internet access. nications:

The evolution of wireless technologies has significantly impacted our daily lives. The introducways-on connectivity to new heights, capable of re- and advancing novel solutions. Despite the chal-

moting digital inclusivity in areas with poor connectivity, globally addressing the challenge through

Innovations and Patents:

Devaki strongly adheres to the philosophy tion of 4G LTE (Long Term Evolution) revolutionized that "progress holds greater value than perfection". the use of smartphones, creating a symbiotic rela- In her pursuit of innovation, she actively seeks both tionship where LTE needed smartphones, and incremental improvements and groundbreaking smartphones needed LTE for enhanced connectivii ideas. Notably, she has secured an impressive 287 ty. Building on this foundation, 5G has taken al- patents, showcasing her commitment to protecting placing traditional cable connections at home by lenges inherent in the patent filing process, Devaki literally replacing wires with wireless capabilities. It recognizes its crucial role as a mechanism for safe-



Devaki's Tech Talk in Bangalore



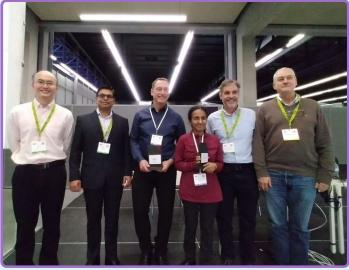
guarding technological innovations. In the dynamic ed with Nagarathar Physicians of North America landscape of a developing field, her proactive ap- and sponsored an eye camp in Chettinad, where proach to patenting reflects not only a dedication to more than 350 people attended, and 50 individuals progress but also a strategic effort to ensure the lon-received free eye surgeries at the Aravind Eye Hosgevity and impact of her contributions.

Work-Life Balance:

Devaki Chandramouli emphasizes the importance of open communication and trust with work-life balance on a day-to-day basis can be chal- *nary impact*." lenging, but one must find a way to realize a sense of equilibrium over a period of time. Given the subhappy family while managing demanding jobs.

Giving back to the society:

Devaki is passionately involved in mentoring girls to pursue STEM careers, both online and faceto-face, with a specific focus on India. Her commitment extends to supporting those in college and coaching individuals entering similar fields. Emphasizing the importance of paying it forward, she actively participates in the "Do Good", an initiative that unites like-minded individuals to raise funds for charity. In sustainability, her son initiated "Water for Water", a project dedicated to conserving rainwater and using donations to contribute to



global water projects. Last year, Devaki, collaboratpital. She values giving back to society and will do so for the foreseeable future.

Message to Youth:

"Dream big, embrace your uniqueness, and colleagues and family members as key to achieving let your dream guide your journey and propel you work-life balance. She acknowledges that achieving forward. The world can then witness your extraordi-

Devaki has been honored with "Inventor of stantial travel demands of both her job and her hus- the Year" awards and was recently bestowed with band's, at times reaching almost 100 percent, care- the prestigious Bell Labs Fellow recognition for her ful planning became crucial, especially with their outstanding contributions to the field of wireless son in the picture. As they were raising their son, communications. This truly is a testament to her Devaki and her husband leaned on their parents, to hard work. May this recognition inspire others to provide the necessary support for maintaining a continue reaching for the stars and making a lasting impact.



Akila Vivek, Rochester Hills, MI

Akila Vivek, a current high school se OKMA Campus and will be pursuing her career towards Environmental



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