Hanson Robotics Ltd was founded by an American roboticist David Hanson Jr.in 2013. Hanson Robotics is an AI and robotics company dedicated to creating socially intelligent machines that enrich the quality of our daily life’s by providing entertainment, service, healthcare, and research applications. The designer and researchers of the company created human looking like robots called humanoids. The people of Hanson robotics wanted to revolutionise of how people thought as robots as being killing machine into something of a friendly environment where humans and robots can co-exist with one another.

The concept design of the humanoid robots was to mimic that of a human form. Frubber is the material used for these robots as they give a patented spongy elastomer skin to the robots and would resemble that of human skin in both fell and flexibility. The companies first breakthrough was with the activation of Sophia a robot designed to mimic human behaviour. Sophia has received widespread media attention and was the first robot to be granted citizenship.

Sophia was activated on February 14, 2016. Sophia is the first humanoid to gain citizenship and the first innovation Ambassador for the United Nations Development Programme. Her AI combines cutting-edge work in symbolic AI, neural networks, expert systems, machine perception, conversational natural language processing, adaptive motor control and cognitive architecture among others. Hanson designed Sophia to be a suitable companion for the elderly at nursing homes, or to help crowds at large events or parks.

There are cameras within Sophia eyes that allow her to see combined with a computer algorithm. She can process speech and can hold conversions with people using a natural language subsystem. Around 2018, Sophia received an upgrade which gave her the ability to walk. Sophia is conceptually like the computer program ELIZA, which allows her to uphold and stimulate a human conversation. The software has been programmed to have pre-written response to specific questions or phases which allows her to respond to speech, it’s the equivalent of a chatbot. The information is shared in a Cloud network which allows input and responses to be analysed with blockchain technology.

In succession of Sophia, Hanson Robotics ltd went and built a miniature version of Sophia known as little Sophia. Little Sophia is a miniature toy that can walk, talk, sing, play games and, like Sophia. The company’s’ aim with little Sophia is to teach young kids so that they will inspire children to learn about coding, AI, science, technology, engineering and math through a safe, interactive, human-robot experience. Little Sophia delivers a high-quality, entertaining and educational experience so young students can learn in a motivating manner as so to spend time with little Sophia. The interaction between Little Sophia and Young students focuses on developing stories and learning. Little Sophia has the same endearing personality as Sophia the Robot. She is the only consumer robot to be available to the public with a human-like face who can generate a wide range of human facial expressions. Like Sophia, she not only responds to commands, but also actively engages in conversations. This unparalleled responsiveness together with her humanoid design makes Little Sophia a smart, educational companion.