Computer vision that keeps you safe

Forget about computer vision as a thing of the future: the cutting-edge technology is already playing a starring role in our day-to-day lives. In areas such as automotive safety, for instance, computer vision and machine learning are helping protect drivers in highways and streets across the globe, where some 1.25 million people die as a result of traffic accidents every year (according to statistics from the World Health Organisation). A recently announced partnership between Jabil and eyeSight Technologies, which is aimed at better assessing other drivers on the road and improving human-machine interaction, is shaping up to be a noteworthy milestone in the space.

eyeSight Technologies was founded in 2005 in Israel with the premise of providing different industries with embedded computer vision solutions. It has since garnered attention from international media outlets like CNN and Cnet for its leading tech developments. Its partnership with Jabil, a well-known manufacturing solutions provider with decades of experience and offices in 28 countries, will be aimed at developing the next generation of in-car sensing technology for the auto industry by combining eyeSight's computer vision software together with Jabil's automotive grade sensors.

"For years, eyeSight has been living and breathing computer vision and machine learning solutions, which are already deployed in millions of devices worldwide," said in a company press release Gideon Shmuel, CEO of eyeSight. "Most recently, eyeSight has been very focused on the in-car automotive market, and our partnership with Jabil will expand our joint solution to enhance the driver experience by offering tangible benefits like driver monitoring and personalisation."

It's expected that the platform — which can be integrated into the existing rig of cockpit electronics — will use "time-of-flight" and infrared capabilities to diagnose things like the driver's age, attentiveness and level distraction based on an analysis of their face and eyes. eyeSight's technology will additionally let drivers have touch-free control of navigation, access to onboard infotainment and other car features through gesture control.

"Jabil's partnership with eyeSight Technologies supports automakers working to reduce accidents involving driver distraction," said in a press release Lisa Bahash, senior vice president, Jabil Automotive Group. "The accuracy, intelligence and efficiency of the system we're developing will enable automakers to implement in-car sensing systems across all vehicle types."

eyeSight and Jabil's partnership will combine both hardware and software in order to monitor the driver on the road with precision. In-cabin camera modules, powered by intelligent software, make the system a safer, smarter, light-weight addition to the vehicles of tomorrow, today.

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