

## UPES students develop an innovative technology to prevent road accidents

*Sleep detector device raises an alarm in case of inattentive drivers; has potential to reduce the number of road accidents*

**New Delhi, October 5, 2018:** Lakshya Gupta and Jaldeep Giniya, engineering students of UPES, have started a company called 'Umbeo Tech' which aims to solve real life problems using technologies like Computer Vision, Machine Learning, Artificial Intelligence etc. The students have developed a sleep detector device that aims to reduce road accidents in the country, by detecting the reducing attention level of a four-wheeler driver and alerting him/her before the mishap.

The sleep detector has a potential to reduce road accidents by detecting the attention levels of the driver and raising an alarm in case the driver is drowsy or drunk. The device uses computer vision technology to detect the attention levels of the driver. It can be used by automobile companies or by individuals as an additional safety feature.

Exhilarated by the experience, *Lakshya Gupta, student of B.tech Computer Science-Specializing in Internet of Things and Smart Cities, UPES* said, "The process of developing a device which has the potential to help in saving people's lives was extremely exciting. The product we have developed can prove to be a revolutionary device for transport companies, as their employees (drivers) usually cover long distances and odd hours of driving."

Talking about the idea generation, *Jaldeep Giniya, student of B.tech Applied Petroleum Engineering Specialization in Gas, UPES* said "Looking at the rate of road accidents due to the inattentive drivers, we felt that there is a need to build a product of this nature. At UPES, we received the right guidance and encouragement to find a solution to this problem through technological innovations."

Umbeo Tech was recognized by Startup India initiative and is in talks with Uttarakhand government for the testing of the device and possibly deploy the device in all the transport buses.

### **ABOUT UPES**

Established in 2003 through the UPES Act, 2003 of the State Legislature of Uttarakhand, UPES is a UGC-recognized and NAAC-accredited University. UPES is globally recognized by QS Ratings with 5 Stars for both employability (placements) and campus facilities and 4 Stars for teaching. UPES offers industry-aligned and specialized graduate and postgraduate courses through its five schools: School of Engineering, School of Computer Science, School of Design, School of Law and School of Business. Given its industry-oriented programs and emphasis on holistic development, UPES graduates are a preferred choice for recruiters, ensuring a track record of 90% + placements over the last few years. UPES is driven by its core philosophy and purpose of delivering outstanding student outcomes.

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