

Mr. Piyush Bhargava addresses budding Innovators at IIT Delhi on Intelligent Transportation Systems & Road Safety

Noida, April 26, 2018: IIT, Delhi - one of India's most prestigious institutions for Science and Technology invited Mr. Piyush Bhargava (Principal Architect – Computer Vision & Image Processing – at KritiKal Solutions) on 25th April as a guest speaker to deliver a lecture on Intelligent Transportation Systems (ITS). The main agenda of the session was to focus on ITS related products i.e. The Traffic analyzer and Enumerator (TRAZER) and KritiKal's License Plate Recognition (KLiPR) Software developed by KritiKal Solutions Pvt. Ltd. and the challenges faced while deploying these systems across cities and different real-world scenarios.

Commencing the lecture with the introduction to Intelligent Transportation and its benefits towards streamlining the traffic conditions and augmenting road safety through real-time camera-based solutions, Mr. Piyush specified some of the challenges pertaining to Indian traffic conditions such as lack of lane discipline and non-standard vehicle number plates. Also, he highlighted the importance of ITS solutions that cater to the heterogeneous Indian traffic conditions compared to the disciplined road conditions of the western world where existing systems work with high level of accuracy and reliability.

Mr. Piyush has driven Technological & Domain Expertise for the Computer Vision & Image Processing Practice at KritiKal for 12+ Years. Over this period, he has helped KritiKal deliver cutting-edge products & Solutions for Clients - with his specialized expertise in Real Time Camera-based Vision/Image Processing Applications, AI/Machine Learning/Deep Learning/Pattern Recognition Algorithms and Cross-Platform Software Design & Development.

Speaking on the guest lecture, he stated, "My main idea was to introduce students to the real-world problems that Transportation Systems in our Country are facing currently so that they can come up with more innovative solutions to overhaul traffic management problems and contribute towards improved City Planning".



Mr. Piyush Bhargava added on saying, “The discussion will surely reinforce our academic linkages and thus help in expanding our forte in Traffic/City & Surveillance Domain. Going forward, I’m quite excited with the interest shown by students to take forth this challenge to build fine-tuned intelligent transportation algorithms that will surpass the limitations of the existing solutions and bring more accuracy in transportation management”.

TRAZER Suite is an extensive tool for Urban Traffic Study & Analysis based on Automated Traffic Counting and Classification (ATCC) software technology. It automatically detects and classifies moving vehicles in a traffic video stream (including live stream from an IP Camera) and then tracks each vehicle. It is also available as **TRAZER Services** and proves to be a potent solution for conducting Traffic Surveys for Toll Audits and Highway Counts.

KLiPR is an Automated Number Plate Reader (ANPR) technology applicable across standard & non-standard number plates and customized especially for the Indian Traffic Scenario. It detects the presence of a Vehicle, Locates the number plate on the detected vehicle, Segments the character from the number plate and performs Optical Character Recognition (OCR) on the segmented characters to generate the Vehicle Registration Number as Machine-Readable Text along with the Number Plate Image, Timestamp and Vehicle Image.

About KritiKal Solutions

KritiKal Solutions is a Technology Design House specializing in Product Development, R&D and Innovation. We have partnered with over 250 clients from all over the world and helped them translate ideas into products. We have done this using our deep domain know-how and technology expertise in Computer Vision & Image Processing (Analytics), Embedded Systems & IoT and, High-performance Mobile, Web & Software Applications. In the last 15+ years, we have contributed to 50+ Innovations/Products in domains like Automotive, Health & Wellness, Energy, Consumer Electronics, Wearables and Traffic/City Surveillance.