ADVERTISEMENT
FOR
COMPUTER VISION ENGINEER
AT
IIT MANDI IHUB AND HCi FOUNDATION
A Section – 8 Company
Location – IIT Mandi Campus

About IIT Mandi iHub and HCI Foundation: About iHub: IIT Mandi iHub and HCi Foundation (iHub) is a section 8 company established under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS). The focus area of IIT Mandi iHub is **"Human-Computer Interaction."** The vision of the iHub is to be an internationally recognized hub that nurtures HCi research, enables technology translation for industry, and scales skill development. The four areas of IIT Mandi iHub are Research and Technology Development, Skill Development, Incubation & Acceleration, and Collaboration. For more information, visit www.ihubiitmandi.in

Applications are invited for the position of Computer Vision Engineer

No of Positions: 02

Apply Here: https://form.typeform.com/to/QOGQWH5j

The Role

We are looking for candidates to contribute to two of our flagship projects in deep-tech areas of computer vision, AI/ML, and sensor technology.

1. Drivers alert management system (DAMS).
2. Quality management in textile Industry.

Responsibilities:

- Design and implement real-time computer vision pipelines for diverse applications, including driver drowsiness detection and automated textile defect inspection, covering image/video preprocessing, feature extraction, and object detection/classification.

- Develop, train, and fine-tune deep learning models using frameworks like PyTorch, TensorFlow, or OpenCV, employing CNNs for facial/eye/mouth analysis and advanced architectures (e.g., segmentation or anomaly detection networks) for textile defect identification.

- Develop on-loom inspection solutions in textile manufacturing, handling high-resolution, continuous streaming data and implementing efficient defect detection and pattern recognition algorithms suitable for industrial settings.

- Conduct rigorous model evaluation and benchmarking, ensuring high accuracy, low false positives, and real-time performance under varying conditions.

- Optimize models and pipelines for real-time inference, including lightweight architectures, quantization, and GPU/edge acceleration techniques.

Essential Qualification:

Position	Qualification	Years of Experience
Computer Vision Engineer	Bachelor's or Master's degree in Computer Science, Electronics, Electrical Engineering, or a related field.	3-6 years

Desirable Experience:

- Hands-on experience with sensor data processing and real-time video/image streams.
- Expertise in developing and optimizing deep learning architectures, including lightweight models suitable for edge device deployment (e.g., NVIDIA Jetson).
- Familiarity with advanced computer vision techniques, such as segmentation, anomaly detection, temporal modeling, and pattern recognition.
- Knowledge of industrial quality control processes, particularly textile defect detection and on-loom inspection.
- Proficiency in data preparation, augmentation, and preprocessing for diverse image/video datasets and real-time inference pipelines.

Remuneration:

Up to INR 90,000/- per month based on experience.

Terms/Instructions:

1. *Only shortlisted candidates will be contacted/informed through email/phone.*
2. *IIT Mandi iHub and HCi Foundation reserves the right to fill up the post, not to fill up the position or cancel the advertisement in whole or part without assigning any reason. The company also reserves the right to limit the number of candidates to be called for written tests/or interviews. The decision of the company in this regard will be final.*
3. *Documentary evidence of all educational and professional qualifications will be required to be produced when specified.*
4. *The company can verify the antecedents or documents submitted by a candidate before the appointment, at the time of appointment, or during the tenure of the service. In case it is detected that the documents submitted by the candidates are fake or the candidate has clandestine antecedents/background and has suppressed the said information, then their services shall be terminated.*
5. *If it is found later that any information given in the application is incorrect/false, the candidature/ appointment is liable to be cancelled/terminated.*
6. ***The applications will be considered till the post is filled.***

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Website: www.ihubiitmandi.in

Note: All applications should be routed through the application link provided for each position in the advertisement. Email us only in case of questions.