



**ADVERTISEMENT
FOR
SENIOR ASSOCIATE/ASSOCIATE – MULTIMODAL AI
IIT MANDI IHUB AND HCl FOUNDATION
A Section – 8 Company Location
– IIT Mandi Campus**

About IIT Mandi iHub and HCl Foundation: **About iHub:** IIT Mandi iHub and HCl 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 HCl 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 Senior Associate/Associate - Multimodal AI

Apply Here: <https://form.typeform.com/to/oT7VH396>

The Role

We seek to hire a Senior Associate/Associate for Multimodal AI to contribute and guide projects in artificial intelligence systems that integrate multiple data types, such as audio, video, text, EEG, images, and sensor data. The senior associate will support the development of multimodal AI models, collaborate with research teams, and align efforts with the organization's goals in Human-Computer Interaction, focusing on practical implementation and technology translation.

Responsibilities:

- Design and conduct experiments for data generation, curation, annotation, and performance evaluation for Multimodal AI to improve model effectiveness and generalization based on use cases.
- Contribute to the development and prototyping of multimodal AI models for applications in HCI, including audio-visual integration, emotion recognition, or content analysis.
- Assist in training, debugging, and optimizing AI algorithms using frameworks like PyTorch or TensorFlow.
- Support research on techniques such as contrastive learning, self-supervised learning, Large Language Models (LLMs), Language Vision Models (LVMs), and Multimodal Large Language Vision Models (MLLVMs).
- Collaborate with teams on building scalable pipelines and preparing insights for publications or deployments.
- Collaborate with research scientists, engineers, and students on project execution.
- Provide technical guidance and mentorship to junior team members.

Qualification:

- Bachelor's or Master's in Engineering or Master's program in Computer Applications (MCA), AI, Machine Learning, or a related fields with a CGPA of 7.0 or higher preferred.

Position	Qualification	Years of Experience
Senior Associate - Multimodal AI	Bachelor's or Master's in Engineering or Master's degree in Computer Applications (MCA), AI, ML, or a related field with a CGPA of 7.0 or higher.	3+ years in AI/ML

Desirable Experience & Skills:

- Strong proficiency in Python, SQL, with knowledge of C++ or Java.
- Expertise in deep learning frameworks like PyTorch or TensorFlow.
- Experience with multimodal AI tools such as HuggingFace Transformers and OpenAI CLIP, LangChain, LlamaIndex, and vector databases (e.g Qdrant).
- Proficiency in libraries like NumPy, Pandas, Scikit-learn, OpenCV.
- Hands-on experience with cloud platforms like AWS SageMaker or Google Cloud AI.
- Knowledge of MLOps tools such as MLflow or Weights & Biases.
- Familiarity with Docker, Kubernetes, and model deployment (CI/CD) solutions.
- Solid understanding of computer vision (e.g., Classification, Object Detection, Segmentation).
- Knowledge of NLP techniques (e.g., tokenization, transformers, BERT).
- Experience with audio processing and multimodal fusion methods.
- Proficiency in Git and experiment tracking tools like Neptune.
- Understanding of statistical analysis and experimental design.

Remuneration:

Up to INR 75,000/- per month, based on institute norms and 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.***

Contact us: IIT Mandi iHub and HCl Foundation, IIT Mandi, North Campus, Kamand, District Mandi, Himachal Pradesh 175005

Email: hr@ihubiitmandi.in

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