



# CALL for Research Fellow – Human-Centered AI

Department of Computer Science & Information Systems  
Birla Institute of Technology & Science, Pilani, K K Birla Goa Campus



## Translational Research Project, Department of Computer Science, BITS Goa

- **Project Title:** e-Monitor: Development of AI driven Smartphone based Assistive Framework to Monitor Student Stress as well as Learning Engagements in Online Learning Platform
- **Research Area:** Applied AI, Machine Learning, Human-computer Interaction, Ubiquitous Computing
- **Sponsor:** AI4ICPS, IIT Kharagpur
- **Deadline:** **20-May-2024**. Please apply via this [link](#).
- **Ph.D Admission:** The project offers a possibility of PhD admission at BITS Goa subject to institute norms and guidelines. The fellow will work from BITS Pilani Goa Campus under the mentorship of faculties at IIT Kharagpur and BITS Goa.
- **PI:** Bivas Mitra; [bivas@cse.iitkgp.ac.in](mailto:bivas@cse.iitkgp.ac.in); <https://cse.iitkgp.ac.in/~bivasm/>
- **Co-PI:** Surjya Ghosh; [surjyag@goa.bits-pilani.ac.in](mailto:surjyag@goa.bits-pilani.ac.in); <https://surjya-ghosh.github.io/>

## Brief Call Description

- 1 research fellow (SRF/JRF) position is available available in the Department of Computer Science and Information Systems, BITS Pilani K K Birla Goa Campus, for the project ` e-Monitor: Development of AI driven Smartphone based Assistive Framework to Monitor Student Stress as well as Learning Engagements in Online Learning Platform '. granted by AI4ICPS, IIT Kharagpur.
- The selected candidate is eligible for a monthly fellowship of 37,000/- to 42,000/- INR (Exact amount may vary but is according to the latest guidelines of the DST).
- The position is for TWO years, subject to availability of funds and satisfactory performance. The opening is for immediate hire.

## Key Research Problems

- Design, development, and deployment of the solutions for stress monitoring from different biological responses collected from sensors and application of state-of-the-art ML approaches
- Annotation effort reduction
- Application of Explainable AI in human-centered applications

## Eligibility

- B.Tech in CSE/IT/ECE/EEE etc.
- M.Tech in Computer Science or allied discipline (IT, EEE, ECE etc.).
- **Preferable:** 2 years of work experience in related areas.

## Skills Required

- Fundamental concepts of machine learning,
- Good programming skills in Python
- **Desirable:** Web app development, Android development, Arduino

## PI Details



Bivas Mitra is an Associate Professor in the [Department of Computer Science and Engineering](#) at [IIT Kharagpur](#). He is a faculty member (since April 2013) in the [Department of Computer Science & Engineering](#) at [IIT Kharagpur](#), India. Prior to that, I worked briefly (Aug. 2012-March 2013) with [Samsung Electronics](#), Noida as a Chief Engineer. He did Ph.D. from the [Department of Computer Science and Engineering](#) of [IIT Kharagpur](#), India.

**Bivas Mitra**  
[CNeRG](#)  
Affective Computing, Wearable Computing, IoT

His research interests include

- Mobile affective computing, Socio-mobile applications
- Crowdsensing, Social-IoT
- Social networks, Data science, Anomaly detection
- Network science, Multilayer networks
- Peer-to-Peer networks
- Optical networks



Surjya Ghosh is an Assistant Professor in the [Department of Computer Science and Information Systems](#) at [BITS Pilani K K Birla Goa Campus](#). Prior to this, he worked as a Postdoctoral researcher at [CWI Amsterdam](#). He did Ph.D. from the [Department of Computer Science and Engineering](#) of [IIT Kharagpur](#), India.

**Surjya Ghosh**  
[IMHI Lab](#)  
Applied AI, HCI, Affective Computing

His research interests lie in the areas of Applied AI, Human-Computer Interaction, Affective Computing, and Computer Systems. The focus of his research is to design and develop intelligent computing systems, which can improve user experience and influence human behavior to improve the quality of living (QoL). His research has two broad themes: (a) to customize and deploy state-of-the-art AI models in computing systems to solve various human-centered research problems, (b) to facilitate user engagement (e.g. survey fatigue and interruption management, better interaction method) by addressing through a wide range of HCI methods (design, prototyping, user studies).