CALL for JRF – Explainable and Interpretable AI

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

innovate   achieve   lead

DST Project, Department of Computer Science and Information Systems, BITS Goa

- **Project Title:** HEXR: Hybrid Explainable Robust Learning Framework to Reduce Annotation Overhead

- **Research Area:** Applied AI, Machine Learning, Human-computer Interaction

- **Sponsor:** DST, SERB, Govt. of India

- **Deadline:** 15-Nov-2023. **Please apply via this link.**

- **Ph.D Admission:** The project offers a possibility of PhD admission subject to institute norms and guidelines.

- **PI**: Surjya Ghosh; surjyag@goa.bits-pilani.ac.in; https://surjya-ghosh.github.io/
- **Co-PI**: Snehanshu Saha; snehanshus@goa.bits-pilani.ac.in; https://scholar.google.co.in/citations?user=C-Qm2LcAAAAJ&hl=en

Brief Call Description

- 1 JRF position is available available in the Department of Computer Science and Information Systems, BITS Pilani K K Birla Goa Campus, for the project `HEXR: Hybrid Explainable Robust Learning Framework to Reduce Annotation Overhead'. granted by DST, SERB (SUR/2022/001965). Govt. of India.

- 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 THREE years, subject to availability of funds and satisfactory performance. The opening is for immediate hire.

Key Research Problems

- Annotation effort reduction

- Application of Explainable AI in human-centered applications

- Design, development, and deployment of the solutions for different human sensing scenarios

Eligibility

- Master's Degree In Computer Science or allied discipline (EEE, Statistics, Mathematics).

- M.Tech in CSE/ECE/EEE is strongly preferred.

Skills Required

- Fundamental concepts of machine learning, neural networks, graph neural networks
- Good programming skills in Python
- **Desirable:** Computational learning theory

PI Details

Surjya Ghosh
IMHI Lab
Applied AI, HCI, Affective Computing

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.

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).

Snehanshu Saha
APPCAIR Lab
Anomaly detection, Robust Inference, Opportune learning

Snehanshu Saha holds Masters Degree in Mathematical and Computational Sciences at Clemson University and Ph.D. from the Department of Applied Mathematics at the University of Texas at Arlington in 2008. He was the recipient of the presitigious Dean's Fellowship during PhD. After working briefly at his Alma matter, Snehanshu moved to the University of Texas El Paso as a regular full time faculty in the Department of Mathematical Sciences. He is an Professor of Computer Science and Heads the Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR) at BITS Pilani Goa Campus. Dr. Saha is also the Cofounder and Director-AI Research at HappyMonk AI Labs Pvt. Ltd, Bangalore. He has published 110 peer-reviewed articles in International journals and conferences. Dr. Saha is an IEEE Senior member, ACM Senior Member, and Former Chair, IEEE Computer Society Bangalore Chapter. Dr. Saha is a Fellow of IETE. Dr. Saha received distinguished researcher award, PEACE in AstroInformatics and Machine Learning in 2019. His current and future research interests lie in Data Science, theory of Machine Learning, BioInformatics and Astronomy.