



Indian Institute of Technology Indore

Simrol, Khandwa Road, Indore 453 552

Dr. Puneet Gupta

Assistant Professor, Department of Computer Science and Engineering

Webpage: <http://www.iiti.ac.in/people/~puneet/>

Date: 1st Dec 2022

Advertisement for Senior Research Fellow (SRF) position under IIT-I DRISHTI funded project

IIT Indore invites applications from highly motivated, sincere, hardworking and research-oriented candidates for the position of **Senior Research Fellow (SRF)** in the IIT-I DRISHTI funded research project entitled “**Designing remote PPG based Heart estimation system for face mask videos**” of **Dr. Puneet Gupta** (PI of the project).

Project Details:

The remote photoplethysmography (rPPG) analyses the heart rate (HR) activity using non-contact face videos acquired from the camera sensor. It works accurately when the complete face is visible in the video. In the COVID-19 scenario, everyone avoids direct contact and uses face masks to keep themselves safe from the spread of virus. Using face masks obstruct the rPPG-based HR analysis, that requires skin color or motion variations from full face. Our project explores the feasibility of performing and improving the rPPG-based HR estimation for such masked face videos.

Salary: Consolidated emoluments – INR 35000 per month + House Rent Allowance (as per DST norms)

Tenure of the appointment: The appointment is for one year. The appointment is a co-terminus with the project.

Essential Qualification: Ph.D. degree or having 3 years of research, teaching, and design and development experience after ME/MTech, with at least one research paper in Science Citation Indexed (SCI) journal.

Desirable Qualification: Candidates having high quality journal/conference papers in the areas of machine learning, deep learning and biomedical applications, knowledge of programming (MATLAB, R, Python) are encouraged to apply.

Apply: Interested candidates are required to fill up this [Google form](#) latest by **Dec 7, 2022, 12:00 Noon**.

Kindly note that incomplete applications will be rejected.

Link to the Google form: <https://forms.gle/qMarsb4YCwL17Utt8>

In case of any query, kindly mail to deeplearning@iiti.ac.in.

Venue, time and date of online interview: The link for online Google meet will be mailed to the selected candidates only and their interviews will be conducted on **8th Dec, 2022**. Kindly note that only the shortlisted candidates will be intimated by email for their interview details.

Note: The Institute reserves the right to fill or not to fill the post advertised.