



Junior / Senior Research Fellow Vacancy
National Institute of Advanced Studies, Bangalore

National Institute of Advanced Studies (NIAS) was conceived and founded in 1988 by the late Mr. J. R. D. Tata, who sought to create an institution to conduct advanced multidisciplinary research. Housed in a picturesque green campus in Bangalore the Institute serves as a forum to bring together individuals from diverse intellectual backgrounds, in the natural and life sciences, humanities, social sciences, and conflict and security studies. The philosophy underlying NIAS is given shape by its multidisciplinary research teams. The Institute is unique in its integrated approach to the study of intersections between science and technology, philosophy, social issues and leadership. The objective is to nurture a broad base of scholars, managers and leaders who would respond to the complex challenges that face contemporary India and global society, with insight, sensitivity, confidence and dedication. For more details: www.nias.res.in

About the Programme/Project: The Project deals with study of concepts underlying the development of techniques and algorithms to investigate issues such as ethics, trust and fairness of machine learning applications, drawing inspiration from disciplines such as social science and philosophy. A comparative study of various techniques has to be carried out through simulation and analysis, before proposing new algorithms.

Title of Position/s: Junior /Senior Research Fellow

Job description: The candidate is expected to carry out a detailed literature survey on the techniques/ algorithms for studying ethics, trust and fairness of machine learning applications., and implement the techniques for a chosen application to evaluate their performance, and develop improved techniques Strong interest in interdisciplinary nature of work cutting across disciplines such as machine learning, social science and philosophy, with proficiency in computer programming is expected

Qualifications:

- i. First Class or equivalent undergraduate degree in Engineering with specialization in Computer Science/Information Technology or Science/Electronics and Communication Engineering with valid GATE Qualification. OR First Class or equivalent Master's degree in Social Science or Philosophy with NET Qualification OR First Class or equivalent MSc degree in Computer Science or MCA, with NET/GATE Qualification as applicable
- ii. Research experiences The candidate should have basic background in Machine Learning algorithms; other than proficiency in Python or C programming. Such details should be clearly highlighted in the application, with demonstrated evidence if any.
- iii. Candidate with a minimum of two years of relevant research work experience will be considered for the level of SRF

Fellowship:

Junior Research Fellow: Rs.25,000/- per month, plus House Rent Allowance as applicable to

Bangalore City, which is currently 24% of the fellowship
Senior Research Fellow: Rs.28,000/- per month, plus House Rent Allowance as applicable to
Bangalore City, which is currently 24% of the fellowship

Mode of Application:

Interested applicants should submit their **curriculum vitae** electronically along with the following documents (as a single pdf document):-

1. Covering letter
2. Statement of Purpose
3. Copy of degree certificates

The last date for receiving applications is 22 February 2021. Short-listed candidates will be invited to NIAS for an interview.

The applications should be addressed to:

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