



# SYMBIOSIS CENTRE FOR APPLIED ARTIFICIAL INTELLIGENCE

## Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with A++ grade (3.58/4) | Awarded Category – I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

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### Advertisement for the Role of Post-Doctoral Fellow

SCAAI/ADMN/2023/01

Date: 11.10.2023

**Advertisement No: SCAAI/ADVT/2023/01**  
***in lieu of notification SIU/U-28/883 dated 23<sup>rd</sup> October 2019***  
**Post-Doctoral Fellow (PDF) position at Symbiosis International University**

Symbiosis Centre for Applied Artificial Intelligence (SCAAI) Symbiosis International (Deemed University), Pune, India invites applications from highly motivated, qualified, and creative researchers for a Post-Doctoral Fellowship to research and carry out the cognitive-behavioral analysis studies using machine learning techniques. The work will focus on developing techniques and tools for the prediction and detection of cognitive behaviors such as stress, deception, decision-making, etc. Additionally, aspects such as depression, anxiety, and other mental disorders will also be studied. SCAAI is currently working to develop AI-based state-of-the-art techniques for Cognitive Neuroscience as part of multiple research projects supported by Government of India. The selected candidate will have great opportunity to contribute to these exciting projects and publish in high-profile journals.

SCAAI is associated with Neuroscience group at the Centre for Development of Advanced Computing (CDAC), Delhi, and Symbiosis University Hospitals and Research Centre (SUHRC). The lab is well equipped with cutting-edge sensors and multimodal data collection tools and equipment for the rapid advancement of research work. Additionally, there are multiple international collaborations in the field of cognitive neuroscience and behavior analysis work (CNBA).

**Qualifications:** We are looking for a highly motivated applicant with a Ph.D. degree in AI/ML or its foreign equivalent (completed within the last five years only) with a first-class or equivalent score at the preceding degree in the appropriate field and a good academic record throughout. Candidates who are about to receive their degree are also eligible to apply, however, they must submit proof of their degree before commencing the position. Moreover, the successful candidate must have no less than four peer-reviewed articles published in WoS and/or SCOPUS-indexed journals with a respectable impact factor in the concerned research area.

**Duties and responsibilities:**

- Develop protocols for lab-based experimental design, data collection, and ethical approvals
- Perform experiments and data analysis for cognitive behavior prediction and detection, development of biomarkers
- Develop the deployable pipeline for web/mobile phone-based development
- Document the results and analysis thoroughly and accurately
- Publish papers in peer-reviewed research journals
- Apply for intramural and external fellowships
- Reports scientific findings in national conference(s)
- Lead and Mentor the UG/PG/Ph.D. students working within these project groups



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- Troubleshoot technical challenges on an as-needed basis
- Perform other duties as assigned.

### Preferred Qualifications and skills:

- Experience in the following fields strongly preferred: cognitive behavior analysis, emotion detection, sentiment analysis, brain-machine interface
- Strong track record of peer-reviewed publications and presentations
- Strong programming skills
- Proven talent to work independently with excellent interpersonal, communication, and mentoring

**Salary terms:** INR 52500/- per month with INR 50,000/- contingency (per year).

**Terms of Service:** The appointees will be called a Post-Doctoral Fellow (PDF) and the initial award will be for **ONE** year which can be extended for a maximum of Two years. The extension after each year will be after a thorough review of the candidate's performance.

The last date of receipt of the application is 17<sup>th</sup> October 2023.

**How to apply:** The application must be submitted online by sending an email to: [researchprojects.01@sitpune.edu.in](mailto:researchprojects.01@sitpune.edu.in)

### Additional notes:

- This fellowship is open for foreign nationals and overseas citizens of India too.
- Please see the respective Departmental website for detailed research areas.
- A mere fulfillment of required minimum qualifications and experience does not entitle a candidate to be called for an interview/discussion.
- The foreign residents and overseas citizens of India can attend an online interview.
- The interview for the Postdoctoral Fellow shall be conducted periodically in a calendar year.
- No TA/DA will be provided for an in-person interview.



With regards,

Dr. Ketan Kotecha  
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