



## INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

*Requires*

**POSTDOCTORAL RESEARCH ASSOCIATE at**

**BRIJ DISA CENTRE FOR DATA SCIENCE AND ARTIFICIAL INTELLIGENCE**

### **Postdoctoral Position In Spatio-Temporal Crime Prediction Using Advanced Modeling Techniques**

We invite applications for a **Postdoctoral Research Associate** position in **Crime Prediction**, focusing on advanced statistical analysis and machine learning techniques to model and predict crime locations and patterns.

**Job Description:** The researcher will have to work on real-world datasets available from various police departments in India to achieve the objectives of implementation and publication. The Research Associate is expected to support research on topics/themes that are aligned with the project and the centre's vision.

#### **Key Responsibilities:**

- Conduct cutting-edge research on crime prediction using statistical modelling, machine learning, and optimization.
- Develop and implement advanced algorithms for crime data analysis and prediction.
- Publish research findings in high-impact journals and present results at conferences.
- Assist in mentoring graduate students and contribute to the centre's activities.

#### **Qualifications:**

- A Ph.D. in Statistics, Machine Learning, Operations Research, Applied Mathematics, or a closely related field.
- Strong background in statistical analysis, machine learning, and optimization techniques.
- Experience with crime data, spatial modeling, or related fields is a plus.
- Proficiency in programming languages such as Python, R, or MATLAB.
- Excellent communication and collaboration skills.

#### **Duration and Location**

The position will be initially offered for a period of six months and may be extended depending on performance. IIMA provides access to the library and computer centre for all Research Associates. If

selected, the candidate is expected to manage their own accommodation, outside the IIMA campus which is centrally located within the city of Ahmedabad.

**Remuneration:** Compensation would be commensurate with qualification and experience and as per IIMA guidelines.

**Application and deadline:** Candidates meeting the above criteria are advised to APPLY ONLINE ONLY. The application attachment file should contain the following materials (as a single consolidated PDF): 1) a cover letter stating educational and relevant work experience, 2) a detailed CV, 3) Contact information for three professional references. Shortlisted candidates will be invited for online or in-person interviews. To apply, please fill out the form using [this link](#). **The deadline of the application is 31<sup>st</sup> October 2024, 11:59pm.**

We will only contact candidates shortlisted for an interview. We will not send out letters of rejection to other applicants. Emails asking for status updates will not be entertained.