



IIT Gandhinagar

Advertisement for “Institute Post-Doctoral Researcher” at IIT Gandhinagar

Project Title:

IndAINagar: AI-Driven Intelligent Traffic Management System for Indian Roads

Project Description:

- Developing an AI-based traffic management framework that integrates real-time accident detection, vehicle tracking, crowd analysis, and dynamic traffic signal control tailored for Indian roads. Implement predictive accident analysis and geotagging to identify high-risk zones, reduce accident rates, and optimize emergency response times.
- Develop a scalable cloud-based and API-driven framework to provide real-time traffic analytics, enabling seamless integration with smart city infrastructure, government agencies, and third-party applications for broader adoption and commercial scalability.
- Curation of India-specific traffic dataset to enhance AI model performance in local conditions, addressing unique challenges such as high congestion, diverse vehicle types, and unstructured traffic movement.

Eligibility and Essential Qualification:

- Ph.D. degree in Electrical Engineering or Computer Science and Engineering or Artificial Intelligence or allied fields having relevant background.
- The percentage should be minimum of 60 % or equivalent grade from graduation onwards.
- Candidates who have submitted Ph.D. thesis are eligible to apply.
- At least 55 % or equivalent in classes 10th and 12th is required.

Application Procedure:

Candidates must send their CV including all the educational percentage/grade details (also email and contact number) to shanmuga@iitgn.ac.in

- Interview will be conducted in online mode
- Shortlisted candidates will be informed regarding the date and time of the interview via email

Deadline to Apply: 7 Feb 2026

Duration of Appointment:

- Initial appointment will be for 1 year. Total project duration is 3 years.
- The appointment may be renewed annually based on the performance.
- Remuneration: INR 72,000/- – INR 84,000/- per month (consolidated)