

Name: ABHISHEK CHAKRABORTY

Position: Scientist, Traffic Engineering & Safety Division

Organization: CSIR – Central Road Research Institute



Research Interest: Road Safety, Driving Behaviour, Travel Behaviour Analysis, Operational data analytics and modelling

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PROFESSIONAL EXPERIENCE:

Designation	Organization	Duration	Details
Scientist Gr. IV (2) [Scientist C]	CSIR – Central Road Research Institute	December 2025 – Present	Scientist in Traffic Engineering & Safety Division. Research Interest: Road Safety, Analysis of Road Users' Behaviour, Travel Behaviour Analysis, Operational data analytics and modelling
Project Officer (in a research project)	SRIC, IIT Kharagpur	August 2024 – November 2025	Project entitled “Speed Management Policy at National & State Levels for Enhancing Road Safety in India: Development, Adoption, Capacity Building & Implementation”, sponsored by International Federation of Red Cross and Red Crescent Societies (IFRC)

ACADEMIC QUALIFICATION:

Degree	Year	Board/ University	C.G.P.A/ Percentage	Recognition
Ph. D. (Transportation Engineering)	Ongoing	IIT Kharagpur	-	-
M. Tech (Transportation Engineering)	2017	NIT Rourkela	9.93	Gold & Silver Medalist
B. Tech (Civil Engineering)	2015	Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly known as WBUT)	9.46	Bronze Medalist
Higher Secondary	2011	W.B.C.H.S.E	88.6%	
Madhyamik (Secondary)	2009	W.B.B.S.E	84.5%	

SKILLS & EXPERTISE:

- Road Safety Auditor
- Transportation Engineer
- Software: Matlab, NLogit, R, SPSS, Amos, iRAP, MS Office

ENGINEERING PROJECTS:

Ph.D. Research Project:

In the field of motorcyclists' riding behaviour in heterogenous traffic flow condition and its implication on safety

M. Tech Research Project:

Thesis title: "Evaluation of Urban Street Service Quality in Developing Countries Using Soft-Computing Techniques

Industrial / Consultancy Projects:

- Worked as team member in various industrial / consultancy projects (funded by Governmental agencies such as RITES, Transport Dept; as well as various private sectors) related to Traffic Impact Assessment, Travel Behaviour Analysis, Traffic Congestion Mitigation Issues, Road Safety, etc. in IIT Kharagpur
- Road safety audits of more than 2000 km of roads as a team member from IIT Kharagpur including several National Highway and State Highways of West Bengal, Jharkhand and Gujarat

Training Programs:

Worked as coordinator and trainer in various road safety training programs organized by IIT-Kharagpur targeting engineers and other stakeholder officials

PUBLICATIONS:

[My Google Scholar Page](#)

Journals:

- Das, P., Chakraborty, A., Pal, S., & Maitra, B. (2025). Commuters' preference towards motorized feeder service for last-mile connectivity from metro stations in a commercial hub. *Case Studies on Transport Policy*, 101661.
- Chakraborty, A., & Maitra, B. (2024). Riding behaviours of motorcyclists in mixed traffic condition and its association with crash risk. *Case Studies on Transport Policy*, 16, 101177
- CHAKRABORTY, A., SEN, S., CHATTERJEE, S., TELU, V., & MAITRA, B. (2024). Development of Simplified Rational Criteria for Identification of Accident Blackspots by Practitioners. *Journal of the Eastern Asia Society for Transportation Studies*, 15, 3194-3206.
- CHAKRABORTY, A., & MAITRA, B. (2024). Influence of Motorcyclists Riding Behaviour on Crash Risks: An Experience from a Mid-Sized Indian City. *Journal of the Eastern Asia Society for Transportation Studies*, 15, 3087-3102.
- CHAKRABORTY, A., MUKHERJEE, D., CHATTERJEE, S., MITRA, S., & MAITRA, B. (2022). Identification of Risk Factors and Safety Issues using Police Reported Crash

Data: An Experience in the State of West Bengal, India. Journal of the Eastern Asia Society for Transportation Studies, 14, 2217-2237.

- Chakraborty, A., Mukherjee, D., & Mitra, S. (2019). Development of pedestrian crash prediction model for a developing country using artificial neural network. International Journal of Injury Control and Safety Promotion, 26(3), pp. 283-293.
- Jena, S., Chakraborty, A., & Bhuyan, P. K. (2018). Performance assessment of urban streets addressing improvement issues for automobile mode of transport. Transportation research record, 2672(45), 232-241.

Conference Papers/ Proceedings / Book Chapters:

- Chakraborty, A., Chatterjee, S., Jose, R., Mukherjee, D., Roy, N., & Mitra, S. (2025). Identification of Risk Factors and Formulation of Cost-Effective Countermeasure Plans for Two-Lane Highways Using iRAP: A Case Study in West Bengal, India. In Conference of Transportation Research Group of India (CTRG 2023). pp. 325-342. Singapore: Springer Nature Singapore.
- Kumar, A., Baroowa, D., Chakraborty, A., & Maitra, S. (2024). Development of a Composite Performance Index for Proactive Assessment of Highways. Presented in the 13th APTE Conference
- Maitra, B., Chakraborty, A., & Pramanik, S. (2024). 602 Roadmap for implementation of speed management policy interventions in India. <https://doi.org/10.1136/injuryprev-2024-SAFETY.303>
- Chakraborty, A., Mitra, S., and Maitra, B. A comprehensive review of motorcyclists riding behaviour and safety (2022). Proceedings of the Fifth International Conference of Transportation Research Group of India (CTRG 2019), Volume 3. Singapore: Springer Nature Singapore, 2022.
- Maitra, B., Mitra, S., Ghosh, K., & Chakraborty, A. (2022). 224 Speed management in Indian scenarios: emerging issues and policy interventions. Injury prevention, 28(Suppl 2), A35-A35.
- Roy, N., Chakraborty, A., Mitra, S., & Maitra, B. (2022). Identification and Prioritization of Factors Responsible for Road Traffic Accidents in India. In Conference of Transportation Research Group of India (CTRG 2021). pp. 219-234. Singapore: Springer Nature Singapore.
- Roy, N., Chakraborty, A., Mitra, S., & Maitra, B. (2022). Investigating the Safety Scenario of a 4-Lane Divided National Highway in India: A Case Study on NH-2. In Conference of Transportation Research Group of India (CTRG 2021). pp. 235-249. Singapore: Springer Nature Singapore.
- Kar, M., Jena, S., Chakraborty, A., & Bhuyan, P. K. (2020). Modelling Service Quality Offered by Signalized Intersections from Automobile Users Perspective in Urban Indian Context. Transportation Research Procedia, 48, 904-922.
- Chakraborty, A., Jena, S., & Bhuyan, P. K. (2017, December). Neural network approach to determine LOS criteria of urban streets for developing countries. In ASCE India Conference 2017(pp. 736-744). Reston, VA: American Society of Civil Engineers.
- Technical contributor of the policy document: "Speed Management for Enhancing Road Safety in West Bengal: Policy Interventions and Roadmap", edited by Bhargab Maitra. ISBN: 978-81-954005-9-1

CERTIFICATIONS:

Road Safety Audit

- 15-day certification course on "Road Safety Audit and other Road Safety related Aspects" in 2023, organized by CRRI (Registration No. CRRI / TPE / 2 / CNP-2903 / 2023 / 25).
- Level-1 & level-2 training on road safety (each of 1 week duration) organized by AITD

iRAP Training and Accreditation

- Road Survey, Data Coding, ViDA Analysis & Reporting
- BIGRS IndiaRAP Webinar: World Bank and iRAP helping save lives on Indian roads"

AWARDS & ACHIEVEMENTS:

Institute Gold Medal

Gold Medalist from NIT-Rourkela for being Institute topper with CGPA 9.93 (out of 10) among M, Tech and M. Sc for the year 2017.

Institute Silver Medal

Silver Medalist from NIT-Rourkela for being Departmental topper with CGPA 9.93 (out of 10) of Civil Engineering Department for the year 2017.

University Bronze Medal

University Bronze Medalist from MAKAUT, WB (Formerly known as West Bengal University of Technology) for positioning 3rd with CGPA 9.46 (out of 10) for the B. Tech curriculum in Civil Engineering for the year 2015.

Scholarship

- MHRD scholarship during Ph.D. program (July 2017 - June 2022)
- MHRD scholarship during M. Tech program (July 2015 -May 2017)
- Scholarship from the Government after Higher-Secondary examination (2011-2013)

INTERNSHIPS:

- Completed a 'Six-week Summer Research Program' on "EFFECTS OF INCIDENTS ON HIGHWAY NETWORK" under Prof. Steven I-Jy Chien at New Jersey Institute of Technology, New Jersey, USA during June – August, 2013.
This project was on Transportation Engineering and the results were found out after analyzing the available traffic data.
- Vocational trainee for one month during summer semester break in 2014 (Company Name: STUP Consultants Pvt. Ltd., Project Title: Analysis and Design of Staircases at Sealdah Underground Metro Station)
Outcome of project: Acquiring knowledge on analysis and designing staircases, Slabs, beams, columns using STAAD and MS-Excel.
- Vocational trainee for one month during winter semester break 2013-14 (Company Name: Simplex Infrastructures Limited, Project Title: Silver Oak Estate, Salua, Rajarhat)
Outcome of project: Acquiring knowledge on construction of a real estate project.