



EDUCATION

Program	Institution	%/CGPA	Year of completion
MS	Indian Institute of Technology Madras, Chennai	8.6	2019-present
B. Tech	National Institute of Technology Bhopal (MANIT)	7.35	2017
XII	Govt. Subhash H S Excellence School, Bhopal MP	90.80	2013
X	Govt. High School Kararaganj, Chhatarpur MP	93.67	2011

SCHOLASTIC ACHIEVEMENTS

- [3rd Prize](#) on prototype modelling for pedestrian safety in “Cognizance 2016” at IIT Roorkee
- [Meritorious Student Award](#) of ₹25000 /-by department of school education Madhya Pradesh (26th August 2013)
- [National Merit Award of ₹ 40000/-](#) by Dr. Ambedkar Foundation, Ministry of Social Justice & Empowerment, Government of India, New Delhi (6th December 2012)
- Recipient of [Dr. Bhimrao Ambedkar Meritorious Student Award](#) of ₹10000 /- (23th January 2012)

COURSE WORK

- Urban Transport Planning
- Highway Geometric Design
- Pavement Construction Technology
- Transportation Studio
- Analytical Techniques in Transportation
- Strategies for Professional growth ([for all](#))

SKILLS

Professional Skills

- Machine Learning and Deep Learning
- Data analysis and visualization
- Road Safety Audits
- Safety Project management
- Review of highway designs and drawings
- Pavement design and analysis

Software and Language Skills

- Python, R, Java
- AutoCAD, VISSIM, TRANSYT, IITPAVE, ViDA, MS office.

PROJECT

- **Development of System approach for Road Crash Investigation** (Jan 2019 – present)
 - Investigated FIR data using **Natural Language Processing (NLP)**
 - Identified the Actor affecting the road Crash & Stablished the casual relationship to road crashes
 - Expected to be developed **Accimaps** of crashes

PROFESSIONAL EXPERIENCE

- **Assistant Manager (Tech)** at [Synergy Engineering Group Pvt. Ltd](#) (Lion Group) Bhopal (May 2017-Dec 2018)
 - Managed the **Road Safety Audit (RSA)** of [4 road safety consultancy projects](#)
 - Assisted in [24 Independent Engineer/Authority Engineer projects](#) with the Lion Engineering Consultants Bhopal Team
 - Managed all the road safety related issues of site offices and head office

- [Project Attendant \(Tech.\)](#) Civil Engineering Department, **IIT – Roorkee** (May -July 2016)
Project: Development of Indian Highway Capacity Manual (Indo-HCM) sponsored by CSIR New Delhi
 - Pedestrian data extraction from videos and data analysis using MS Excel
 - Develop Level of Service for Pedestrian facility

PUBLICATION

- Uma Bhawsar, Pradeep Kumar Agarwal, [Kamlesh Kumar Ahirwar](#). “A Novel Approach for Allocation of Maintenance Resources to Maximize Safety Improvement of Road Network in Developing Countries”, Journal of Advanced Research in Automotive Technology & Transportation System 2(1&2),2017

CONFERENCE PRESENTATIONS

- P.K. Agarwal, R.Mehar, [K.K. Ahirwar](#). “A rational methodology to improve safety on road network in developing countries”, 3rd conference of transportation research group of India (CTRG) 17-20 December, 2015 Kolkata India.
- Ashoka Kumar Sharma, [Kamlesh Kumar Ahirwar](#), “Safety management of road tunnel during construction: A case study of Chirwa Ghat and Kuthiran twin tunnel in India” 5th conference of transportation research group of India (CTRG), 18-21 December 2019 Bhopal India.

CO-CURRICULAR ACTIVITIES

- Attended the [15th World Conference on Transport Research](#) | Mumbai, India (26-31 May 2019)

EXTRA-CURRICULAR ACTIVITIES

- Completed [BIGRS IndiaRAP Webinar](#): World Bank and iRAP helping save lives on Indian roads, 16 hours online course and assignments (2, 4, 9 and 11 June 2020)
 - Understand the Risk Assessment methodology of iRAP
 - Completed the project to ensure minimum **3-star rating** to all user using ViDA software.
- Assisted in the [Workshop on Smart Mobility 2019](#) | Research Park, IIT Madras (15-17 Dec2019)
- Attended the [GIAN course on Road Safety Engineering at IIT Guwahati](#) (23-29 June2019)
 - Learned how to design the road safety project
 - Learned how to conduct road safety audits and points of concerned after road safety audit
- Attended & managed [15 days Course on Road Safety Engineering](#) | MANIT Bhopal, India (02-16 July 2018)
 - The course was jointly organized by MANIT and Lion Engineering Consultant Bhopal
 - I was Head of Team from Lion Engineering Consultants Bhopal
 - Explored the dimensions of risk assessment technique, **black spot studies** & accident analysis
- Training on [“Research Methodology and Application of SPSS in Multidisciplinary Research”](#) | MANIT Bhopal, India (04-08 Jan 2015)
 - Learned hypothesis testing & Simple Regression modelling
- [Leadership Development Camp](#) | Bhopal, India (23-28 Jan, 2012)
- Save Water campaigns at village level

HOBIES

- Travelling| Reading| Horticulture