RAVI SHANKAR MISHRA

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RESEARCH INTERESTS

Computer Vision, NLP, LLM, Machine Learning, Deep Learning, Generative AI

EDUCATION

Master of Science (by Research) in Computer Science & Engineering Jan 2022 - Dec 2024
CVIT, International Institute of Information Technology, Hyderabad, India. 8.33/10
Advisors:- Prof. C.V Jawahar, Dr. Ravi Kiran S, Dr. Anbumani Subramanian.
Thesis (defense Pending)

Bachelor of Engineering in Computer Science & Engineering 2017 - 2021
Anna University, Chennai, Tamilnadu, India. 8.85/10

EXPERIENCE

Mentor for Online AI/ML Course (Part-time) April 2022 - Present
University: IISC Bangalore (Remote)
Talentsprint, India

- Conducted coding sessions for participants.
- Guided industry professionals on AI projects.

Applied Research Engineer Jan 2021 - Dec 2021
Advisor: Dr. Anbumani Subramanian (Intel, India)
INAI - Applied AI Research Center, India

- Contributed to the "Project IRaste" team.
- Assisted in data capture planning.
- Collaborated with multiple stakeholders to refine problem statements.
- Developed statistical models and experimented with various approaches.
- Led a team of three for model deployment and dashboard preparation.

Research Intern Dec 2019 - Jan 2020
Advisor: Dr. Deepak Garg, Dr. Gaurav Singal
Bennett University, Greater Noida, India

- Worked as an ML Developer in a research group.

PUBLICATIONS

IDD-CRS: A Comprehensive Video Dataset for Critical Road Scenarios in Unstructured Environments, Under Review ICRA 2025 IEEE International Conference on Robotics and Automation, 2025

Transfer-LMR: Heavy-Tail Driving Behavior Recognition in Diverse Traffic Scenarios, Under Review IEEE Robotics and Automation Letters, 2024

Enhancing Road Safety: Predictive Modeling of Accident-Prone Zones with ADAS-Equipped Vehicle Fleet Data, 35th IEEE Intelligent Vehicle Symposium, 2024

Moment-based features of knitted cotton fabric defect classification by artificial neural networks, Journal of Natural Fibers 19 (4), 1498-1506, 2022

Corridor Segmentation for Automatic Robot Navigation in Indoor Environment Using Edge Devices, Computer Networks 178, 107374, Elsevier, 2020

TECHNICAL / ACADEMIC SKILLS

Programming Language	C, C++, Python
Libraries / API	PyTorch
Platforms	Linux, Windows
Courses	Computer Vision, Statistical Methods of AI, Advanced NLP, Topics of Applied Optimization, Mathematics of Generative Models, Topics in Deep Learning
Skills	Machine Learning, Deep Learning, Computer Vision, NLP, LLM, Generative AI, Mentoring, Leadership