Rajeev Ranjan Dwivedi

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EDUCATION

PhD - DATA SCIENCE & ENGINEERING Bhopal, MP, IN | August 2022 - Present
TCS Research Fellow
VisDom Lab - Indian Institute of Science Education and Research (IISER) Bhopal
Advisor : Dr. Vinod Kr. Kurmi
Research Area: Bias and Fairness in AI, Transfer Learning, Knowledge Graph and LLMs, Uncertainty Estimation

INTEGRATED M.Sc. STATISTICS Ajmer, RJ, IN | July 2016 - August 2021
Central University of Rajasthan
Master's Thesis : Proposed new distribution function - Skew Laplace Slash Beta from Slash Family of distribution which is asymmetric, heavy tailed and accounts for extreme values and outliers.

INTERMEDIATE - Class 12th Gonda, UP, IN | May 2015
Fatima Senior Secondary School

WORK EXPERIENCE

SONY AI | Research Intern Full Time | Dec 2023 - March 2024

- Working on explainability with LLMs over Knowledge Graphs.
- Finding efficient path-based approaches for graph traversal and node accountability (non-statistical approaches).

NIT - KURUKSHETRA | Research Intern WFH | Feb 2022 - April 2022

- Implementing Attention Mechanisms to a variety of data sets with special focus on Fake News Classification.
- Making models and pipelines for Automated Legal Judgement Prediction (LJP).

REMISSAS INDIA PVT. LTD. | Data Analyst intern Jaipur, RJ, IN | May 2019 - Nov 2019

- Data generated from solar plants were analyzed and helped in building a model to efficiently manage power grids.
- Used pivot tables and created insightful graphics using daily data on energy produced and demanded.

PUBLICATIONS

MULTI-ATTRIBUTE BIAS MITIGATION VIA REPRESENTATION LEARNING
Accepted at ECAI 2025 (Core A) [Project Page]

EQUITABLE DERMATOLOGY: ADVERSARIAL AND SPECTRAL TECHNIQUES FOR FAIR SKIN LESION CLASSIFICATION
Accepted at ICVGIP 2025

GRAD-CL: SOURCE FREE DOMAIN ADAPTATION WITH GRADIENT GUIDED FEATURE DISALIGNMENT
Accepted at BMVC 2025 (Core A) [Project Page]

COSFAIRNET: A PARAMETER-SPACE BASED APPROACH FOR BIAS FREE LEARNING
Accepted at BMVC 2024 (Core A) [Project Page]

QUANTIFYING UNCERTAINTY IN NEURAL NETWORKS THROUGH RESIDUALS
Accepted at CIKM 2024 (Core A) [Project Page]

PREDICTING MISSING LIGHT CURVES OF GAMMA-RAY BURSTS WITH BIDIRECTIONAL-LSTM: AN APPROACH FOR ENHANCED ANALYSIS
Accepted at SPAICE 2024, ECSAT, UK [Project Page]

BRIDGING STYLE AND FUNCTION: EVALUATING THE ROLE OF STYLE FEATURES IN VISION MODELS
Under review at Neurocomputing

FAIRSPEECH - DEBIASING WITH FINE-GRAINED SELF ALLOCATING CLUSTERS*
Under review

BLACKBOX BIAS MITIGATION WITH REPRESENTATION SPACE PERTURBATIONS*
Under review

STATE SPACE MODEL BASED NIR COLORIZATION*
Under review

PROJECTS

WEAKLY-SCRIBBLE-SUPERVISED CAMOUFLAGED OBJECT DETECTION Python, Pytorch
Worked on developing a weakly-supervised camouflaged object detection method using scribble annotations and a new network architecture with modules that use semantic and in-out class information for segmentation.

DEBIASING A NETWORK USING SIMULTANEOUS TRAINING OF TWO NETWORKS Fair Learning, Python, Pytorch, Bias-Free Learning
The project proposes a debiasing method where one model is trained to be biased, and another model learns to avoid making the same mistakes by using the biased model for debiasing.

IRIS LOCALIZATION AND RECOGNITION USING DEEP LEARNING CV2, Pytorch, Biometric
Developed an unsupervised approach for iris localization, extraction, and recognition in non-ideal scenarios, improving the accuracy and robustness of iris recognition systems.

COURSEWORK

Deep Learning, Machine Learning, Natural Language Processing, Spatial Data Science, Data Science in Biometric Systems, Probability Theory, Distribution Theory, Econometrics, Linear Algebra, Real Analysis, Linear Models, Stochastic Models, Inference, Time Series Analysis, Multivariate Statistics, Development Statistics, Statistical Quality Control, Statistical Quality Management, Sampling Theory.

ACTIVITIES, INTERESTS & AWARDS

- Awarded student grant for attending Graduate Forum at **IndoML'25** (December'25)
- Got selected for **TCS Research Scholar Program (RSP)** (July'24)
- Awarded **Prof. Ram Kumar Fellowship** (July'24) for attending GAME-ARTS, **IISc Bangalore**
- Awarded student grant for attending **IndoML'23** at IIT-Bombay. (December'23)
- Attended 7th Summer School on AI at CVIT, IIIT-Hyderabad (July'23)
- Attended SERB Funded Workshop on Synergizing Healthcare Services and Affective Computing using Deep Learning at IIT Indore (July'23)
- Awarded **ACM Anveshan Setu Fellowship** for 2023.
- Holding **Program Coordinator** position in the **Caring Hands Foundation** - an NGO recognized by UN Global Compact Network.
- **University Student Head** of Institute Innovation Council (IIC) - an initiative of MHRD (Ministry of Human Resource and Development) for fostering innovations in intuitions.
- Initiated University Magazine **ASTITVA** and worked as Chief Editor for 2 consecutive years.
- Received best presentation award twice among 500+ students during Data Science and Analytics internship.

AREA OF INTEREST

Fair Learning, Domain Adaptation, Computer Vision, Deep Learning, Statistical Machine Learning, Knowledge Graphs, LLMs, Agentic AI, Sustainable Solutions and AI.

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* Title of paper(in Publications) is changed and simplified to maintain the anonymity of submission.

[Last Updated 5th September 2025]