Dr. Pratik Mazumder

Assistant Professor, CSE, IIT Jodhpur

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Research Interests: Incremental/Continual Learning, Fairness in Deep Learning, Zero-Shot/Few-Shot/Limited Data Learning, Deep Learning, Computer Vision.

Selected Publications

WACV-24 **Pratik Mazumder***, Piyush Arora*, "Hybrid Sample Synthesis-based Debiasing of Classifier in Limited Data Setting", IEEE/CVF Winter Conference on Applications of Computer Vision (WACV-2024).

NEUNET-23 **Pratik Mazumder***, Pravendra Singh*, "Mitigate Forgetting in Few-Shot Class-Incremental Learning Using Different Image Views", Neural Networks (NEUNET-2023).

TPAMI-22 **Pratik Mazumder***, Pravendra Singh*, Piyush Rai, Vinay P. Namboodiri, "Rectification-based Knowledge Retention for Task Incremental Learning", IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI-2022).

KBS-22 **Pratik Mazumder***, Pravendra Singh*, "Protected attribute guided representation learning for bias mitigation in limited data", Knowledge-Based Systems (KBS-2022).

AAAI-21 **Pratik Mazumder***, Pravendra Singh*, Piyush Rai, "Few-Shot Lifelong Learning", AAAI Conference on Artificial Intelligence (AAAI-2021).

NeurIPS-20 Pravendra Singh*, Vinay Kumar Verma*, **Pratik Mazumder**, Lawrence Carin, Piyush Rai, "Calibrating CNNs for Lifelong Learning", Conference on Neural Information Processing Systems (NeurIPS-2020).

Funded Projects

○ **Design and development of few-shot multi-class recognition model over data suffering from label corruption in a semi-supervised setting**[Ongoing, Funding Agency: SERB]

○ **Development of Bias Mitigation Approaches for Fair Deep Learning** [Ongoing, Funding Agency: DST]

Work Experience

2022-till date **Assistant Professor,** Indian Institute of Technology Jodhpur, Rajasthan, India.

○ Associated with teaching undergraduate, postgraduate, and doctoral students, research guidance, other administrative activities

2013–2016 **Manager IT,** Tata Steel Limited - Information Technology Services, Jamshedpur, Jharkhand, India.

Education

2016–2022 **M.Tech-Ph.D. Joint Degree in Computer Science and Engineering**, Indian Institute of Technology, Kanpur, India.

○ under the supervision of **Dr. Vinay P. Namboodiri** and **Dr. Piyush Rai**.

○ PhD Thesis: "Data Efficient Techniques for Deep Learning"

○ M.Tech Thesis: "Contextual Pointwise Convolution for Object Recognition"