

Kiran Purohit

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Google Scholar, Research Gate

EDUCATION

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| Indian Institute of Technology Kharagpur Ph.D., Dept. of Computer Science and Engineering Advisor: Prof. Sourangshu Bhattacharya | West Bengal, India 2020–2025 |
| National Institute of Technology Durgapur M.Tech, CGPA: 9.15/10 | West Bengal, India 2018–2020 |
| THDC-IHET B.Tech, Percent: 75.9 | Uttarakhand, India 2013–2017 |
| Kendriya Vidyalaya Faridkot 12 th Science, Percent: 84.4 | Punjab, India 2012–2013 |
| Kendriya Vidyalaya Sukna 10 th , CGPA: 9.6/10 | West Bengal, India 2010–2011 |

EXPERIENCE

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| Indian Institute of Technology Kharagpur Teaching Assistant – Mentored B.Tech and M.Tech students in Term Projects | West Bengal, India Dec 2020 - Current |
| National Institute of Technology Durgapur Teaching Assistant – Helped B.Tech students in Lab assignments | West Bengal, India Jul 2019 - Jun 2020 |
| Defence Research and Development Organisation (DRDO) Trainee – Developed Network Docket Management System a website for automation of complaints registered. | Uttarakhand, India Jun 2016 - Jul 2016 |

SCHOLARSHIPS & AWARDS

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| • Prime Minister's Scholarship Scheme for CAPF & Assam Rifles | 2013–2017 |
| • BSF Director General's Merit Scholarship | 2013–2014 |
| • MHRD Gate Scholarship | 2018–2020 |
| • Institute Fellowship for PhD | 2020–2025 |
| • AI4ICPS Chanakya PhD Fellowship | 2024–2025 |

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, PHP, ASP
- **Deep Learning Libraries:** Pytorch, Tensorflow
- **Database Management tools:** MySQL, Oracle
- **Big Data Management:** Pyspark

PUBLICATIONS

- [1] **K. Purohit**, S. Das, S. Bhattacharya, and S. Rana, “Learndefend: Learning to defend against targeted model-poisoning attacks on federated learning”, in *arXiv preprint arXiv:2305.02022*, 2023 (Submitted).
- [2] **K. Purohit**, A. Parvathgari, and S. Bhattacharya, “A greedy hierarchical approach to whole-network filter-pruning in cnns”, 2024 (Submitted).
- [3] **K. Purohit**, Raghuram, Krishna, Venkatesh, S. Bhattacharya, and A. Anand, “Robust and efficient exemplar selection for in-context learning”, 2024 (Submitted).
- [4] **K. Purohit**, A. Parvathgari, S. Das, and S. Bhattacharya, “Accurate and efficient channel pruning via orthogonal matching pursuit”, in *Second International Conference on AI-ML Systems (AIMLSystems 2022)*, 2023, ISBN: 978-1-4503-9847-3.
- [5] **K. Purohit**, A. Kesarwani, D. Ranjan Kisku, and M. Dalui, “Covid-19 detection on chest x-ray and ct scan images using multi-image augmented deep learning model”, in *Proceedings of the Seventh International Conference on Mathematics and Computing*, Singapore: Springer Nature Singapore, 2022, pp. 395–413, ISBN: 978-981-16-6890-6.
- [6] **K. Purohit**, O. Iqbal, and A. Mullick, “Reproducibility report: Contextualizing hate speech classifiers with post-hoc explanation”, in *arXiv preprint arXiv:2105.11412*, 2021.
- [7] A. Kesarwani, **K. Purohit**, M. Dalui, and D. R. Kisku, “Measuring the degree of suitability of edge detection operators prior to an application”, in *2020 IEEE Applied Signal Processing Conference (ASPCON)*, 2020, pp. 128–133.

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

- Gold winner in English Debate, English Essay Writing and Hindi Extempore Speech.
- Silver winner in English Debate and Quiz Competition.
- Bronze winner in Science Quiz Competition, Sanskrit Shloka Recitation, Calligraphy Competition, Hindi Essay Writing, Mono Acting Competition and Group Song Competition.
- Yoga, Swimming and Table Tennis enthusiast

REFERENCES

- Dr. Sourangshu Bhattacharya, Associate Professor in Computer Science and Engineering, IIT Kharagpur, sourangshu@cse.iitkgp.ac.in
- Prof. Saurabh Bagchi, Professor in ECE , Founding Director of CRISP, Founding Director of Army A2I2, Director of ECE Corporate Partnerships, Purdue University, sbagchi@purdue.edu
- Dr. Avishek Anand, Associate Professor in the Software Technology, TU Delft, Avishek.Anand@tudelft.nl
- Dr. Santu Rana, Associate Professor in Computer Science, Deakin University, Australia, santu.rana@deakin.edu.au
- Dr. Dakshina Ranjan Kisku, Associate Professor in Computer Science and Engineering, NIT Durgapur, drkisku@cse.nitdgp.ac.in
- Mr. Ravi Shanker Sharma, Scientist-D in DEAL-DRDO, Dehradun, ravisharma@deal.drdo.in