

# Kiran Purohit

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Google Scholar, [Reasearch Gate](#)

## EDUCATION

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<b>IIT Kharagpur</b> Ph.D. Scholar (Chanakya Fellow), Computer Science & Engineering Supervisor: Prof. Sourangshu Bhattacharya; <b>Research Areas:</b> Trustworthy and Scalable AI	West Bengal, India 2020–2025
<b>NIT Durgapur</b> M.Tech, CGPA: 9.15/10	West Bengal, India 2018–2020
<b>THDC-IHET</b> B.Tech, Percent: 75.9	Uttarakhand, India 2013–2017
<b>KV Faridkot</b> 12 <sup>th</sup> Science, Percent: 84.4	Punjab, India 2012–2013

## PUBLICATIONS

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- [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**, Anurag, Soumi, and Sourangshu, “Accurate and efficient channel pruning via orthogonal matching pursuit”, in *Second International Conference on AIML Systems*, 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 *Seventh International Conference on Mathematics and Computing*, 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 *Applied Signal Processing Conference*, 2020, pp. 128–133.

## EXPERIENCE

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<b>Virginia Tech - IIT Kharagpur</b> <i>Teaching Assistant:</i> Joint Certification Program In Business Analytics and AI	Virgina & West Bengal, India Dec 2023 - Sep 2024
<b>Indian Institute of Technology Kharagpur</b> <i>Teaching Assistant:</i> Mentored B.Tech and M.Tech students in Term Projects	West Bengal, India Dec 2020 - Current
<b>National Institute of Technology Durgapur</b> <i>Teaching Assistant:</i> Helped B.Tech students in Lab assignments	West Bengal, India Jul 2019 - Jun 2020

## PROJECTS

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- [Course Content Management System \(CCMS\)](#) (2017)  
Worked on this project in B.Tech using Front End-PHP & Back End-MySQL  
It provides framework for teaching and management of online course content.
- [SeasonsWay: Shopping Site](#) (2016)  
Worked on this Project in B.Tech using Front End-JSP & Back End-MySQL  
A shopping website that is mainly for the locals of Tehri and Baurari.
- [Network Docket Management System](#) (2016)  
Worked on this Project at **DRDO** using Front End-ASP & Back End-Oracle  
Generates a distinct docket number for every complaint registered with date.

## 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

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- **Programming Languages:** C, C++, Python, Java, PHP, ASP, C#, HTML, CSS
- **Frameworks:** Pytorch, Tensorflow, Keras, spacy, nltk, scikit-learn, Pandas, numpy

## POPULAR / NEWS ARTICLES / MEDIA COVERAGE

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- COVID-19 Detection, Genomics & Health Impact Weekly Scan — PHGKB, Jul 2020. Our paper got enlisted in the [Centers for Disease Control & Prevention under the US Department of Health.](#)
- COVID-19 Detection Literature Situation Report, Our COVID-19 work was featured in the Daily Newsletter of the [Department of Global Health, University of Washington.](#)

## EXTRACURRICULAR ACTIVITIES

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

## REFERENCES

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- Dr. Sourangshu Bhattacharya, Associate Professor in CSE, IIT Kharagpur, sourangshu@cse.iitkgp.ac.in
- 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
- Mr. Ravi Shanker Sharma, Scientist-D in DEAL-DRDO, Dehradun, ravisharma@deal.drdo.in