

Kiran Purohit

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Google Scholar, [Research Gate](#)

EDUCATION

IIT Kharagpur Ph.D. Scholar (Chanakya Fellow), Computer Science & Engineering Supervisor: Prof. Sourangshu Bhattacharya; Research Areas: Trustworthy and Scalable AI	West Bengal, India 2020–2025
NIT Durgapur M.Tech, CGPA: 9.15/10	West Bengal, India 2018–2020

PUBLICATIONS

- [1] **K. Purohit**, Venkatesh, S. Bhattacharya, and A. Anand, “Chalsamp: A challenger sampling-based top-m arm identification for in-context exemplar selection”, 2024 (Submitted).
- [2] **K. Purohit**, S. Das, S. Bhattacharya, and S. Rana, “A data-driven defense against edge-case model poisoning attacks on federated learning”, in *Twenty Seventh European Conference on Artificial Intelligence (ECAI)*, 2024.
- [3] **K. Purohit**, A. Parvathgari, and S. Bhattacharya, “A greedy hierarchical approach to whole-network filter- pruning in cnns”, in *Transactions on Machine Learning Research (TMLR)*, 2024.
- [4] **K. Purohit**, Venkatesh, Raghuram, Krishna, Sourangshu, and Avishek, “Explora: Efficient exemplar subset selection for complex reasoning”, in *Empirical Methods in Natural Language Processing*, 2024.
- [5] **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.
- [6] **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.
- [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

AICTE QIP PG Certificate Programme <i>Teaching Assistant:</i> AICTE QIP PG Certificate Programme for Core Engineering Faculty	West Bengal, India July 2024 - Sep 2024
Virginia Tech - IIT Kharagpur <i>Teaching Assistant:</i> Joint Certification Program In Business Analytics and AI	Virginia & West Bengal, India Dec 2023 - Sep 2024
Indian Institute of Technology Kharagpur <i>Teaching Assistant:</i> Mentored B.Tech and M.Tech students in Term Projects	West Bengal, India Dec 2020 - Current
National Institute of Technology Durgapur <i>Teaching Assistant:</i> Helped B.Tech students in Lab assignments	West Bengal, India Jul 2019 - Jun 2020
Defence Research and Development Organisation (DRDO) <i>Trainee:</i> Developed a website for automation of complaints registered.	Uttarakhand, India Jun 2016 - Jul 2016

PROJECTS

- [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

- **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

- 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

- 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

- 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