



IIT PALAKKAD



SHORT ONLINE COURSE ON

FAIRNESS IN MACHINE LEARNING

JANUARY 24 – FEBRUARY 4, 2022

COURSE TOPICS

- Machine Learning and Fairness
- Sources of Unfairness in Machine Learning Techniques
- Philosophical and Legal Underpinnings of Fairness
- Streams of Fairness: Individual and Group Fairness
- Fairness Testing
- Costs of Fairness: The Accuracy vs. Fairness Trade-off
- Fairness in Classification and Fair Algorithms for Classification
- Fairness in Clustering and Representation Learning
- Fairness in NLP; Text Embeddings and Fairness
- Fairness in Similarity Search and Information Retrieval
- Fairness in Outlier and Anomaly Detection
- Research Gaps in ML Fairness

Organized by

Department of Computer Science and Engineering

Indian Institute of Technology Palakkad

YOU SHOULD ATTEND IF YOU ARE

- MS Ph.D. working in Machine Learning or allied disciplines
- Faculty of Machine Learning or allied disciplines
- Post-doc Candidate/ Research Associate working at any University/Institution of India or Abroad in the area of Machine Learning, or allied disciplines.
- Working professional working in the research wing of any Private or Public Organizations.
- BTech in CS or EE interested in Machine Learning

INSTRUCTED BY

Dr. Deepak Padmanabhan, Queen's University Belfast, UK



Dr. Deepak P is an assistant professor of computer science at Queen's University Belfast, UK. He has 15+ years of research experience in Machine Learning and Data Analytics, which includes 10 years as a Research Scientist at IBM Research. He has published 90+ research publications in various areas of data analytics, authored 3 books, and has 12 patents to his credit. He has won several awards including best paper awards and the INAE Young Engineer Award and is a senior member of the ACM and IEEE, as well as a fellow of the HEA (UK). His research interests are in ML applications and AI ethics.

Dr. Sahely Bhadra, IIT Palakkad, India



Dr. Sahely Bhadra works in the broad area of Machine Learning and Optimization. She is interested in multi-view kernel learning from noisy incomplete data with structural properties. Dr. Sahely has published in top venues in ML and bioinformatics such as ICML, JMLR, MLJ, ICDM, Bioinformatics.

COURSE FEES AND REGISTRATION

The participation fees for taking the course is as follows:

- Participants from abroad: US \$100
- Industry : Rs. 5,000
- Academic Institutions, Govt. Organizations, Public Sector undertakings, etc. : Rs. 1,000
- Students, Research Scholars: Rs. 500

Course will completely online. Student need good internet and computer with python at their end.

Link will be sent to registered candidates.

CONTACT

Course Coordinator

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