One Week Short Term Course on Recent Trends in Machine Learning and Deep Learning for AI Applications

5th – 9th June, 2023

Organized by:
Department of Information Technology
DELHI TECHNOLOGICAL UNIVERSITY
Shahabad Daulatpur, Bawana Road, Delhi-110042

About the University

Delhi Technological University (Formerly Delhi College of Engineering) is a leading Technological University. It was initially established in 1941 as Delhi Polytechnic and later on renamed as a Delhi College of Engineering in 1965. In 2009, Delhi Technological University was reconstituted from Delhi College of Engineering by the Government of NCT of Delhi. The University has a prominent journey spanning over 78 years. Delhi Technological University (DTU) is a non-affiliating, teaching and research university established to achieve excellence in Science, Engineering, Technology, Humanities, Bio-Tech, Management, Environment and allied areas. DTU offers Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.), Doctor of Philosophy (PhD) and Master of Business Administration (M.B.A) and contains fourteen academic departments with a strong emphasis on scientific and technological education and research. The university has great focus on guiding students in innovation, design, development, construction, production, managerial and entrepreneurial activities.

About IT Department

Delhi Technological University (DTU) offers a comprehensive undergraduate B.Tech. Course in Information Technology, admitting 200 students annually, and post-graduate studies in Information Systems with an annual intake of 25 students. The program equips students with a broad range of knowledge and skills, including analysis and design of information systems, information security, mobile communication, soft computing, artificial intelligence, digital signal processing, computer vision, and expert systems.

In addition to core subjects, students have the option to take electives related to upcoming IT fields, allowing them to tailor their education to their interests and future career aspirations. The program also prepares students for a variety of industries such as banking, insurance, communications, E-Governance, entertainment and multimedia, scientific research, business intelligence solutions, and knowledge discovery in databases.

Advancement in the field of IT is demonstrated by departments' PhD research scholars who work on various application domains of Information Technology. This emphasis on research and innovation ensures that students are equipped with the latest and most relevant skills, ready to tackle the challenges of the industry.

Overall, DTU's Information Technology program provides students with a strong foundation and cutting-edge knowledge of IT, enabling them to excel in their chosen careers.

IMPORTANT DATES

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Last date to register online</td>
<td>25.05.2023</td>
</tr>
<tr>
<td>Email to shortlisted participants</td>
<td>27.05.2023</td>
</tr>
<tr>
<td>Confirmation from participants</td>
<td>28.05.2023</td>
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<tr>
<td>Final list of shortlisted participants</td>
<td>29.05.2023</td>
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<tr>
<td>Commencement of STC</td>
<td>5.06.2023 – 9.06.2023</td>
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It gives us immense pleasure to announce that the Department of Information Technology, Delhi Technological University, is planning to organize a short-term course (STC) on Machine Learning and Deep Learning for AI Applications in physical mode at Delhi Technological University. We are pleased to welcome all the participants (Faculty/Research Scholars/Industry Professionals) to enrich their skills in the field of Recent Developments in Machine Learning and Deep Learning for applications towards Science, Engineering and Technology expanded to inter- and trans-disciplinary areas of artificial intelligence, bioinformatics, biomedical, agriculture, etc. Participants will get to explore different real-world engineering applications where Machine Learning and Deep Learning are significant along with the discussion on research issues, challenges and possible solutions in AI applications. The course will also focus on the latest development in the field of deep learning such as Generative Pre-trained Transformer (GPT), Machine Learning and Generative AI In Healthcare, Vision Transformers (ViT) in Image Recognition, Transformer-based Generative Adversarial Networks

About the Program

Course Objective:

The objective of conducting the training program is to encourage Academicians/Industry fellows/Researchers to learn the latest advancements in the field of Machine Learning and Deep Learning. Participants will get to explore different real-world engineering applications where Machine Learning and Deep Learning are significant along with the discussion on research issues, challenges and possible solutions in AI applications.

Programme Content:

- Introduction of Artificial Intelligence and its Applications
- Introduction of Machine Learning and its Algorithms
- Recent development in Machine Learning and Deep Learning for various Artificial Intelligence Applications.
- Introduction of Convolutional Neural Networks, Recurrent Neural Network and LSTMs
- Reinforcement Learning, Optimization and Data Driven Methods
- Generative Pre-trained Transformer (GPT), Machine Learning and Generative AI In Healthcare
- Vision Transformers (ViT) in Image Recognition.
- Transformer-based Generative Adversarial Networks

Organizing Committee:

- **Chief Patron**
  Prof. J. P. Saini, Vice-Chancellor, DTU
- **Patron**
  Prof. Madhusudan, Registrar, DTU
- **Chair Person**
  Prof. Dinesh K. Vishwakarma, HOD, IT

Organizing Members:

- Prof. Kapil Sharma
- Dr. Virender Ranga
- Dr. Jasraj Meena
- Mr. Rahul Gupta
- Prof. Seba Susan
- Ms. Anamika Chauhan
- Dr. Priyanka Meel
- Ms. Geetanjali Bhola

Resource Person

Experts from IITs, IIITs, NITs, etc.

Target Group:

The programme is open to the members of AICTE/UGC approved Engineering Institution/ Universities (Faculty/ Research Scholars) and industry specialists.

Registration, Fee and Selection Process

There is no Registration Fees. The interested candidates are required to fill the registration form at the earliest but not later than 25st May 2023. Participants are required to upload self-attested copy of the demand draft of Rs. 500/- issued in the favour of ‘Registrar DTU, New Delhi’ in the registration form as refundable security. They are required to submit the Original DD at the time of commencement of the course i.e., 05.06.2023. The amount will be refunded after the successful completion of the course.

Registration Link and QR Code:

https://forms.gle/QBHLDzJxtihCfwd57

The list of selected candidates will be displayed on DTU website on 29th May, 2023. Participants will not be paid TA/DA for attending the course. The selection is on first come first served basis/selection criteria depending upon the availability of the seats. Accommodation is limited and will be made available at DTU Guest House/Hostels on prior request in writing on payment basis.

For any query can contact: stc_ai@dtu.ac.in