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AI4ICPS IIT Kharagpur

Dive into the world of AI and ML

Master the art of turning futuristic dreams into practical realities!

Here is everything you need to know about the "IIT Kharagpur AI4ICPS Certificate Programme Hands-on Approach to AI for Real-World Applications (HAAI) - Cohort 2" Schedule:

Course Starts on 13th

July 2024						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August 2024						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September 2024						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October2024						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

Course Ends on 19th

The dates highlighted in blue indicate the scheduled date for the live lecture.

Session Details:

Week	Session Title	Session Date	Start Time (IST)	End Time (IST)	QA Time (IST)
1	Introduction to AI	13-July-24	09:00 AM	10:00 AM	10:00 AM - 10:30 AM
1	Mathematical Foundations for AI and ML - I	13-July-24	10:30 AM	12:30 PM	12:30 PM - 01:00 PM
2	Mathematical Foundations for AI and ML - II	20-July-24	09:00 AM	11:00 AM	11:00 AM - 11:30 AM
2	Hands-on Python: Notebooks (Colab, Jupyter)	20-July-24	11:30 AM	12:30 PM	12:30 PM - 01:00 PM
3	Hands-on Python: Numpy, Pandas	27-July-24	09:00 AM	11:00 AM	11:00 AM - 11:30 AM
3	Linear Models for Regression and Classification	27-July-24	11:30 AM	01:00 PM	01:00 PM - 01:30 PM
4	Supervised Machine Learning (Classification, Bayes classifier, KNN, SVM)	03-Aug-24	09:00 AM	11:00 AM	11:00 AM - 11:30 AM
4	Supervised Machine Learning (Lab) (Bayes classifier, KNN, SVM) (Scikit Learn)	03-Aug-24	11:30 AM	01:00 PM	01:00 PM - 01:30 PM
5	Supervised Machine Learning (Theory) (Decision Tree, Random Forest)	10-Aug-24	09:00 AM	10:00 AM	10:00 AM - 10:30 AM
5	Introduction to NLP	10-Aug-24	10:30 AM	11:30 PM	11:30 AM - 12:00 PM
5	Classification (Decision Tree, Random Forest) & Regression (Linear and Logistic Regression) (Lab) (Scikit Learn)	10-Aug-24	12:00 PM	01:00 PM	01:00 PM - 01:30 PM
6	Unsupervised Machine Learning (Theory) (Clustering, K-Means, Hierarchical, PCA)	17-Aug-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
6	Unsupervised Machine Learning Lab (Scikit Learn)	17-Aug-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
7	Reinforcement Learning	24-Aug-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
7	Foundations of Neural Networks and Deep Learning (Theory) (ANN, CNN, RNN)	24-Aug-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
8	DL Models - Inference with pre-trained models (Pytorch), Training Models from scratch	31-Aug-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
8	DL Models - Transfer Learning from Pre-trained models	31-Aug-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
9	DL Applications in Computer Vision (Theory)	07-Sep-24	09:00 AM	11:00 AM	11:00 AM - 11:30 AM
9	DL Applications in Computer Vision (Lab)	07-Sep-24	11:30 AM	12:30 PM	12:30 PM - 01:00 PM
10	Advanced DL (Transformers, BERT) (Theory)	14-Sep-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
10	Advanced DL Lab (Transformers)	14-Sep-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
11	Prompting with open-source LLMs (Llama2 / Mistral)	21-Sep-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
11	Deep-temporal models (Transformer Hawkes)	21-Sep-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
12	Foundations of Generative AI	28-Sep-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
12	Application Lab: (Computer Vision: GANs, VAEs) (Large Language Models: BERT, GPT)	28-Sep-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
13	Industry Use Case 1: Computer Vision Applications	05-OCT-24	09:00 AM	10:30 AM	10:30 AM - 11:00 AM
13	Industry Use Case 2: ChatGPT and LLM with cloud	05-OCT-24	11:00 AM	12:30 PM	12:30 PM - 01:00 PM
14	Career Preparation (Digitalization Skills: Social Media Strategy for Profile Visibility, Art of Interviewing), (AI Opportunities)	19-OCT-24	09:00 AM	11:00 AM	11:00 AM - 11:30 AM
14	Feedback and Doubt Clearing Session	19-OCT-24	11:30 AM	01:00 PM	

Embrace the AI revolution and chart your path to boundless opportunities!

To know more about this programme click on:

https://www.tcsion.com/hub/iit-kgp-certificate-program/hands-on-approach-to-ai/