National Institute of Electronics and **Information Technology**

Ministry of Electronics & Information Technology Government of India



Gurukul of Technology







Artificial Intelligence is the intelligence exhibited by machines or software. The application areas of artificial intelligence are very vast and so this is a field of study which is gaining importance day

Initiatives in area of Artificial Intelligence

- Joint Certification Programmes with IIT Ropar
- Industrial Training / Summer Training programmes
- Corporate Training
- Faculty Development Programmes
- Programmes for School Students
- Workshops/Webinars



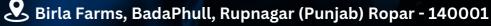
- 1. Python Associate
- 2. Data Analyst
- 3. Artificial Intelligence & Machine Learning Expert
- 4. Neural Networks & Deep Learning Professional
- 5. Project Work

Testimonial @Youtube









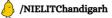




training .chd@nielit.gov.in

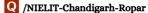


























Joint Certification with IIT Ropar

Under this umbrella MoU, NIELIT and IIT offered the following training programmes in Artificial Intelligence under joint certification:

- Industrial Training / Summer Training in Artificial Intelligence and Machine Learning since 2019.
- Corporate Training
- Joint Workshops
- NIELIT staff training by IIT's Indo-Taiwan Joint Research Centre on Artificial Intelligence and Introduction to Deep Learning for 5 days.

Corporate Training Programmes

Under this umbrella MoU, NIELIT and IIT offered the following training programmes in Artificial Intelligence under joint certification:

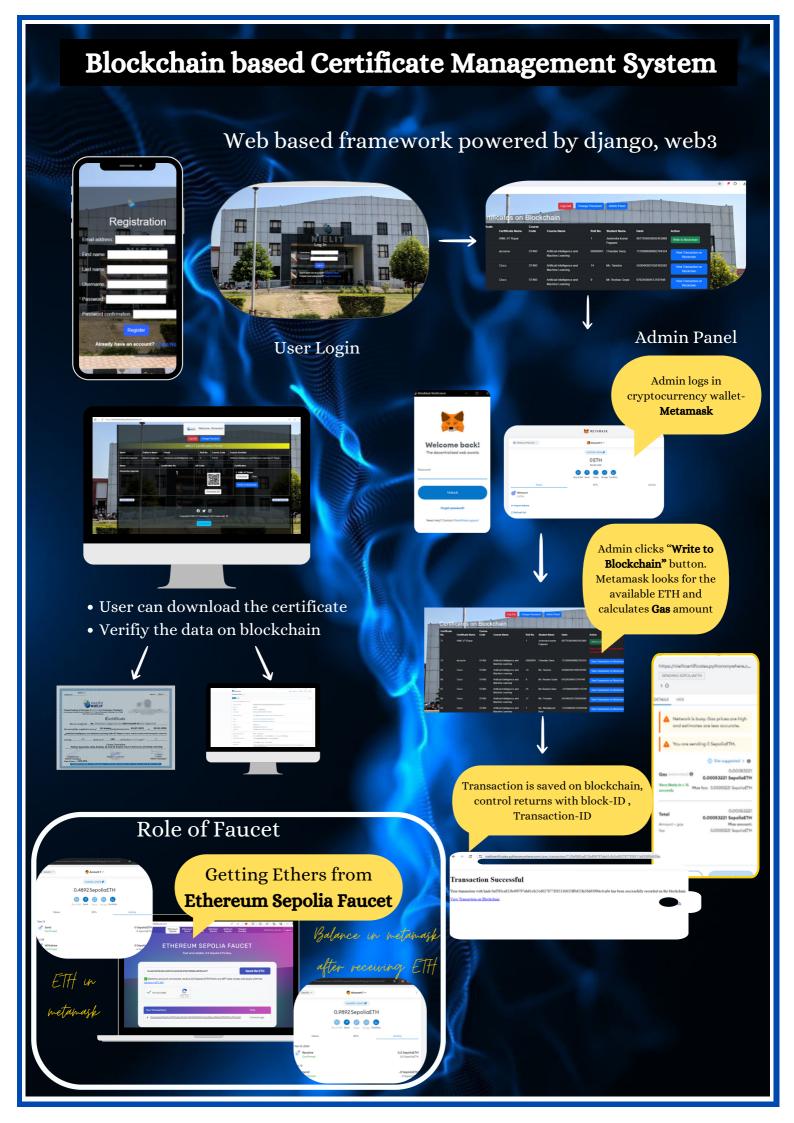
- Industrial Training / Summer Training in Artificial Intelligence and Machine Learning since 2019.
- Corporate Training
- Joint Workshops
- NIELIT staff training by IIT's Indo-Taiwan Joint Research Centre on Artificial Intelligence and Introduction to Deep Learning for 5 days.

Short Term Courses Offered

- Python with Data Science and Machine Learning (40/60/90 hrs)
- Artificial Intelligence and Machine Learning (90/360 hours)
- Courses in Summer Vacations for school children.

AI training imparted to group of around 100 students of

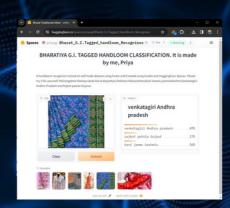
- Five colleges under Uttarakhand Technical University
- Central University, Motihari, Bihar
- Central University, Mahendergarh, Haryana
- MNIT, Jaipur
- DCRUST State University, Murthal



AI based Handloom Recognisor

Trained for handloom like: Moirangphee-Manipur,Kota Doria-Rajasthan,Paithani-Maharashtra,Kani shawls-jammuKashmir,Venkatagiri-Andhra Pradesh and Rajkot patola-Gujarat.

using Fastai, Gradio and HuggingFace







AI based ID card generator

AI based Automated ID card generator using OpenCV for image editing , has user ceredential verification and database support for storing attendance data leading to analytics

using django, OpenCV and pythonanywhere







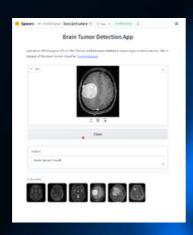


Brain Tumor

ML based Brain Tumor detection system

Based upon MRI image (JPG or PNG format), Predict the signs of a brain tumor.

using Fastai, Gradio and HuggingFace





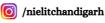




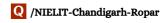












Face Recognition using Deep Learning

Test Image



Python provides face_recognition API which is built through dlib's face recognition algorithms. This face_recognition API allows us to implement face detection, real-time face tracking and face recognition applications.



Face Detection



Image Normalization







Modi ji









Recognizer Predict



Aadhaar based Attendance System

Add new Face







Add Aadhaar No.

Attendence updated on web server

Today's Attendance ⊙		
Name	Aadhaar No.	Time
Vishal	987654	2024-02-11 12:45:34
ankit	989898	2024-02-11 12:46:10



Marking Attendance



Birla Farms, Bada Phull, Rupnagar (Punjab) Ropar-140001

Phone: 01881-257008





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